

DOCUMENT RESUME

ED 104 487

JC 750 275

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TITLE Status of Individualized Instruction in Colleges Identified as Members of the Council of North Central Community and Junior Colleges, 1974-1975. A Report to the Council of North Central Community-Junior Colleges.

INSTITUTION Council of North Central Community and Junior Colleges.

PUB DATE Apr 75
NOTE 113p.

EDRS PRICE MF-\$0.76 HC-\$5.70 PLUS POSTAGE
DESCRIPTORS College Instruction; Course Evaluation; *Individual Instruction; *Individualized Instruction; *Instructional Innovation; *Junior Colleges; Learning Processes; Surveys; Teacher Characteristics; *Teaching Load; Teaching Methods; Units of Study (Subject Fields)

ABSTRACT

This research is based on a survey of teacher-practitioners of individualized instruction in member colleges of the Council of North Central Community-Junior Colleges. The survey was mailed to the presidents of 307 colleges in September 1974, with results tabulated in November 1974 based on responses from 726 practitioners from 120 colleges in 19 states. A brief review of the literature points out some of the virtues and drawbacks of individualized instruction. The survey focuses on the characteristics of the institutions where individualized instruction is used as well as on the characteristics of the practitioners. Overall, the usual descriptors of practitioners (sex, age, academic attainment) tend not to vary significantly from expectations with respect to type, location, age or enrollment of the institution. Distribution of individualized instruction by subject area is depicted in tabular form. Practitioners tend to be similar with respect to selection of format, pace, and achievement measures; unfortunately, relatively few have attempted to systematically evaluate their instructional techniques. One conclusion that was generated by the study is that most instructors who use individualized instruction work more hours than the average instructor and spend an inordinate amount of time with students. (Author/AH)

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IN COLLEGES IDENTIFIED AS MEMBERS OF THE
COUNCIL OF NORTH CENTRAL COMMUNITY-JUNIOR COLLEGES

A Report to the Council of North Central

Community Junior Colleges

April 1975

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Abstract

This research is based on a survey of teacher-practitioners of individualized instruction in member colleges of the Council of North Central Community-Junior Colleges. The survey was mailed to the presidents of 307 colleges in September 1974. By November 1974 the researchers had completed data analysis for 726 practitioners' responses from 120 colleges located in 19 states.

INTRODUCTION

Community-junior colleges have assumed the task of providing meaningful educational experiences for an increasingly heterogeneous group of students. Unfortunately, they have accepted this challenge during a period when the average American has become somewhat skeptical of the capability of the institutions in his society to deliver what they have promised. Administrators and faculty in postsecondary education are finding that the promises of the "open-door" admissions policies which have gained such prominence in recent years must now be met in terms of increased student knowledges, skills, job placements, social adjustments, etc., or simply be acknowledged as having been hopelessly idealistic in the first place.

Some administrators and faculty leaders even now are saying that the "open-door" of the two-year college should be redefined as simply a less expensive (by virtue of larger classes, heavier teaching loads, and a virtually nonexistent "pure research" commitment) opportunity for the more intelligent, better motivated, and perhaps less emotionally and/or financially secure student to reap the benefits of higher education while residing near his/her home and working part-time. Others argue that it is too soon to be redefining the "open door" and have

modified instructional procedures to deal with the greater diversity in student abilities. In some cases, they have developed behavioral criteria for course and/or curriculum entry that result in more homogeneous student groups. In other cases, they have developed and/or acquired extensive teaching materials to use in individualizing their instruction with respect to entry, mode, pace, evaluation, and other conditions of learning.

While it is probably too early to tell the nature and extent of the impact of individualized approaches to teaching and learning upon the accountability problems presently facing the "open door" institutions, one thing is relatively certain--those who practice and promote such approaches are beginning to gain the attention of the decision makers in higher education. The literature of higher education presently abounds with articles extolling the virtues of individualized instruction for solving problems related to costs of instruction, student failure, student discipline, space utilization, grade dissatisfaction, etc.

In his travels to various postsecondary institutions in the Mid-West as a consultant and as a member of visiting teams for the North Central Association of Colleges and Schools, the senior researcher has noted a growing number of faculty who seem to be presently employing or developing individualized instruction approaches to teaching/learning in their area of expertise.

The Questions Asked

Noting this phenomenon, the researchers asked, "What is the present status of individualized instruction in two year postsecondary institutions in the north central region? Is its practice widespread? Are there characteristics of institutions (type, location, years of operation, size) that seem to be related to the development and use of individualized teaching approaches? Do the practitioners have a different profile (age, sex, academic preparation) than the

average community-junior college teacher?"

Design of the Study

These questions were posed in a modest proposal to the Council of North Central Community-Junior Colleges, which was funded. Two brief survey forms were designed and mailed to the Presidents of 307 colleges in September of 1974. In November of 1974, the researchers completed data analysis for 726 teacher-practitioner responses. For the purposes of this study, responses were analyzed from 120 colleges located in all 19 states to which surveys were mailed.*

A Brief Look at the Literature

Most teachers report that individualized instruction results in an increase in learner achievement. Bent (1), Heider (2), Gillespie (3), Hunter (4), and Lewis (5) have reported the effectiveness of individualized approaches with respect to achievement in the physical sciences. These writers all agree that both students and teachers work harder using individualized approaches. They also agree that students achieve at a higher level as measured by tests. Heider (2) and Gillespie (3), in studies of student achievement as indicated by grade-point averages, reported that generally the percentage of A and B grades increased and the percentage of D and F grades decreased. Hunter (4), in a study comparing different types of individualized instruction approaches with a more traditional lecture-discussion approach, reported greater achievement in his experimental groups on both unit and final examinations.

In psychology, Treffinger (6) reported that self-directed learning techniques helped solve learning problems related to conformity, diversity, relevance, boredom, learning styles, evaluation, and appropriateness of challenge. Barlow (7) found the learning contract method to be supportive of creative use of resources, higher learner achievement, and motivation. He also recorded that teachers tended to

*In total more than 1000 responses from more than 140 colleges were returned. Some arrived too late or were judged inappropriate for this analysis.

spend more time with students.

At American River College, Millis (9) reported that "...individualized instruction is effective because it permits students to work at their own pace, to get as much help as they need from teachers and tutors and...to master course content."

On the other hand, Thiagarajan (8) reported that individualization can be overdone and may be detrimental to learning. Huther (10), in a thoughtfully written exposition questioning the assumptions implicit in some of the literature on individualized instruction, states that a possible outcome may be that students will become dependent upon highly individualized learning experiences and unable to learn in the more common, often ambiguous, environment presented in the larger society.

The question of the effectiveness of individualized approaches in solving the instructional problems of community college faculty, faced with the task of delivering instruction to classes too variable in ability, motivation, and attitude toward learning to permit the meaningful presentation or discussion of material at a predetermined "level", has not yet been fully answered, obviously. While experienced educators have learned to be wary of any "panacea" that is reported as being capable of solving all teaching-learning problems, individualized instruction does appear to be a viable instructional alternative which shows promise for dealing with at least some of the problems most common to community-junior college teachers.

Practitioners and Community-Junior Colleges

The practitioners of individualized instruction in community-junior colleges may be described as rather typical postsecondary teachers (Table I). About 37% are female, 62% male, only 2% are under 25 years old, 37% between 25 & 35, 34% between 35 & 45, and about 25% are over 45 years old. Eight percent of the practitioners hold a doctors degree, 64% a masters, 17% hold a bachelors, and 8%

TABLE I
CHARACTERISTICS OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

Sex	Fem.	Male	Age			Academic			Totals	
			Under 25	25-35	Bet. 35-45	Over 45	Bach	Mast	Doct	None
<u>Type Inst.</u>										
Comp. C. Jr.	37	62	2	56	35	26	12	70	10	4
Tech. Coll.	40	59	2	42	33	21	30	47	1	18
Lib. A. Coll.	35	65	2	30	28	37	12	75	14	-
Other	7	25	-	50	31	19	-	87	12	-
<u>Location</u>										
Urban	46	53	-	30	39	31	18	65	5	9
Suburban	41	58	2	40	33	23	12	74	11	1
Rural	33	65	2	39	33	23	18	60	8	10
<u>Age Inst.</u>										
Under 5 y	30	68	4	49	36	11	17	77	4	-
Bet. 5 & 10	39	61	2	39	34	24	18	60	8	11
Bet. 10 & 20	57	41	-	45	31	22	16	71	8	4
Over 20 y	36	63	1	29	33	33	14	69	9	2
<u>Enrollment</u>										
Bet. 1500-4000	37	62	2	38	34	24	18	62	7	9
Over 4000	41	59	1	31	33	35	11	75	11	0
Totals:	N	275	444	12	269	246	185	122	464	57
%	38	61	2	37	34	25	17	64	8	8
										100

are not degreed.

About two-thirds of the practitioners are employed in Colleges defined as Comprehensive Community-Junior Colleges, about one-fourth are identified with two-year technical colleges, and one in sixteen are faculty in two-year liberal arts colleges. Twenty percent of the practitioners work in an urban college, twenty-eight percent in a suburban college, and forty-seven percent are employed by colleges located in rural areas.

Most practitioners (86%) of individualized instruction are identified with colleges which enroll 1500-4000 full-time equivalent students. In that no responding practitioners came from colleges enrolling less than 1500 FTE students, the researchers assume that practitioners from smaller colleges chose not to respond or that there are few practitioners of individualized instruction in small community-junior colleges. Most practitioners (54%) are employed by colleges which are 5-10 years old, however, thirty percent are from colleges which are more than twenty years old...Seven percent from 10-20 year old colleges and six percent from colleges less than five years old.

The data in Table I indicates a slightly larger percentage of female practitioners in technical colleges (40%) compared to liberal arts (35%) or comprehensive community colleges (37%). Almost half of the urban college (46%) practitioners are female compared to two-fifths suburban (40%) and one-third rural (33%). Females comprise over half of the practitioners from colleges ten to twenty years old (57%) compared to about one-third of the practitioners in colleges less than ten years old and colleges over twenty years old.

The average age of practitioners in liberal arts colleges is slightly older (37% over 45) than practitioners in other type colleges. As might be expected, the average age of practitioners in institutions under 5 years old is slightly younger compared to other institutions. Technical colleges have fewer practitioners with advanced degrees and more practitioners holding a bachelors degree or less.

Practitioners holding graduate degrees are more frequent in suburban colleges and in larger institutions.

Overall, the usual descriptors of practitioners...sex, age, academic attainment...tend not to vary significantly from expectations with respect to type, location, age, or enrollment of the institution.

Practitioners and Subject Area

Practitioners of individualized instruction are generally distributed over nine subject areas. Communications 16%, business 16%, technical 15%, science 12%, social science 11%, mathematics 10%, health 9%, humanities 3%, and physical education 1%. Table II records the percentages of practitioners in each subject area by type, location, age, and size of institution.

As might be expected practitioners in comprehensive community colleges are rather evenly distributed over seven of the nine areas (excluding PE and humanities). Technical colleges tend to have more practitioners in technical (27%) and business (25%) subject areas. And liberal arts colleges have more teachers of individualized instruction in communications and humanities.

Interestingly, a larger percentage of practitioners of individualized instruction in mathematics (25%) are employed by colleges less than 5 years old. These younger colleges also (perhaps expectedly) are under represented by technical (4%), social studies (4%), and health (4%) practitioners. Colleges between 10 and 20 years old tend to have more communications (25%) and health (18%), and fewer social studies (6%) practitioners than might be expected. Larger institutions are represented by a larger percentage of communications (24%) and a lower percentage of science (7%) practitioners compared to smaller institutions.

Practitioner and Instruction Level

The respondents were asked to check the level of course(s) for which they were using individualized instruction. Three levels and four combinations were

TABLE II
SUBJECT AREA OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

<u>Type Inst.</u>	Subject Area						Totals					
	Hum.	Sci.	Math.	Tech.	Bus.	Soc. S.	Health	Commun.	PE	Other	N	%
Comp. C. Jr.	3	15	9	12	13	12	11	17	1	3	475	65
Tech. Coll.	2	4	8	27	25	9	7	14	-	2	177	24
Lib. A. Coll.	7	12	19	5	16	16	-	21	-	5	43	6
Other	6	19	12	-	12	-	6	44	-	-	16	2
<u>Location</u>												
Urban	1	9	9	18	18	9	17	16	1	1	150	21
Suburban	5	12	10	15	16	11	6	21	2	5	204	28
Rural	5	14	10	14	16	13	8	15	1	3	344	47
<u>Age Inst.</u>												
Under 5 y	2	15	25	4	19	4	4	15	-	6	47	6
Bet. 5 & 10	4	11	8	21	14	12	10	15	2	3	394	54
Bet. 10 & 20	2	12	8	14	10	6	18	25	-	0	51	7
Over 20 y	3	15	10	7	20	13	7	18	-	2	222	31
<u>Enrollment</u>												
Bet. 1500-4000	3	13	10	15	16	12	10	15	1	2	522	86
Over 4000	4	7	10	16	13	8	7	24	3	7	104	14
Totals:	N	23	88	70	112	14	82	67	119	20	726	100
	%	3	12	10	15	16	11	9	16	7	7	100

indicated as classifications of level. Table III data may be interpreted to show that about 10% of the practitioners checked developmental, 29% college parallel, 28% career, and 25% some combination of levels.

Developmental level practitioners seem to exist at about the same percentages in all institutions described except in institutions between 10 and 20 years old where the percentage is nearly twice the expected. Similarly, college parallel practitioners are over represented in institutions under five years old and (as expected) in liberal arts colleges. Career level courses are more frequently reported by practitioners in technical colleges and older colleges, and less frequently by practitioners from liberal arts colleges.

Practitioners and Teaching Experience

As displayed in Table IV, forty percent of the responding practitioners have more than five years, but less than ten years, teaching experience. About one-fourth have 2-5 years experience.

Generally the more experienced teachers are employed at liberal arts colleges (42% over 10 years), and/or institutions over twenty years old, and/or larger institutions.

Some Observations

Based on an analysis of the descriptive data regarding practitioner characteristics, subject area, course level, and/or teaching experience, the researchers are not able to distinguish any unusual descriptors related to institutional type, location, age, or size.

We tend to believe that practitioners arise from the challenge to design instruction so as to meet the learning needs of individual students.

Since students attending two-year colleges tend to be more heterogeneous with respect to prior learning and ability, we believe that two-year college teachers are more likely to initiate individualized instruction procedures.

TABLE III
INSTITUTION LEVEL OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Percentages)

<u>Type Inst.</u>	Instruction Level						Totals						
	Develop	Coll	Par	Career	Devel & Coll	Devel & Par	College & Career	Devel & College	Coll Given	Not Given	N	%	
Comp. C. Jr.	9	31	25	7	1	12	6	9	475	65			
Tech. Coll.	11	23	42	4	1	11	2	6	177	24			
Lib. A. Coll.	9	39	12	19	-	9	2	9	43	6			
Other	12	25	12	19	6	6	12	6	16	2			
<u>Location</u>													
Urban	12	21	31	7	1	9	6	13	250	21			
Suburban	10	29	25	8	1	13	6	7	204	28			
Rural	9	33	27	7	-	10	-	8	344	47			
<u>Age Inst.</u>													
Under 5 y	13	43	11	13	2	6	8	4	47	6			
Bet. 5 & 10	8	26	33	6	1	12	5	9	394	54			
Bet. 10 & 20	18	14	33	8	-	12	8	8	51	7			
Over 20 y	10	36	21	8	1	10	5	9	222	31			
<u>Enrollment</u>													
Bet. 1500-4000	8	30	28	7	1	11	6	9	622	86			
Over 4000	15	23	29	6	1	11	5	11	104	14			
Totals:	N	70	212	205	51	4	81	42	61	726	100		
	%	10	29	28	7	1	11	6	8	100			

TABLE IV.
TEACHING EXPERIENCE OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

<u>Type Inst.</u>	Teaching Experience			Totals	
	Under 2	Bet. 2-5	Bet. 5-10	Over 10	Not Given
Comp. C. Jr.	7	23	41	28	2
Tech. Coll.	15	32	41	8	3
Lib. A. Coll.	7	16	35	42	-
Other	6	25	50	19	-
<u>Location</u>					
Urban	10	25	40	23	2
Suburban	6	22	45	26	1
Rural	10	7	38	22	3
<u>Age Inst.</u>					
Under 5 y	13	45	28	11	4
Bet. 5 & 10	10	28	44	18	-
Bet. 10 & 20	4	23	55	16	2
Over 20 y	8	16	33	39	4
<u>Enrollment</u>					
Bet. 1500-4000	9	27	40	22	2
Over 4000	5	15	42	36	-
<u>Totals:</u>	N	63	182	292	14
	%	9	25	40	2
					100

If the above is true we can predict that the trend toward some form of individualized instruction will continue as the student population becomes more heterogeneous with respect to academic background, age, employment, home background, aptitude, readiness, etc.

Format, Pace and Achievement Measurement of Individualized Instruction

Tables V, VI, and VII are used to record information regarding the format, pace, and type of achievement measurements used by practitioners of individualized instruction by college type, location, age, and size. Some practitioners in nearly all institutional descriptions used all fourteen formats. A personalized format was checked by nearly sixty-two percent of the practitioners, and the Keller method was checked by only three percent of the practitioners. Overall laboratory (52%), audio visual (49%), programmed (39%), audio tutorial (37%), packaged (37%), prescribed (33%), and project (31%) formats were most frequently reported by practitioners. Few practitioners reported use of computer (4%) or Keller (3%) formats.

Technical college practitioners tend to prefer laboratory, packaged, personalized, audio-visual, prescribed or project formats...or combinations of these formats. Liberal arts teachers frequently select a personalized (63%) format, but avoid video, Keller and/or computer format(s). Institutional descriptors of location, age, and size do not appear to be related to format selection except...suburban college practitioners less frequently select a packaged format, and practitioners from colleges between ten and twenty years old more frequently select an auto tutorial format.

Most practitioners (Table VI) use self pacing (66%) and few use a fixed pace (11%) for individualized instruction. About forty-three percent of the practitioners use achievement pacing, twenty percent teacher pacing, and fifteen percent class pacing. It is interesting to note that technical college teachers select self (80%) and/or achievement (55%) pacing most frequently.

TABLE V
INSTRUCTIONAL FORMAT* USED BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

Type Inst.	Audio Tutor	Auto Tutor	Pro. Cont	Kell	Lab	Pkg	Per	Proj	A.V.	Video	Comp	Libr Pres	Other	N	%			
Comp. C. Jr.	41	24	43	21	5	49	28	58	27	45	21	5	25	26	475	65		
Tech. Coll.	28	15	32	9	-	65	71	70	46	67	16	2	16	16	177	24		
Lib. A. Coll.	26	12	30	16	2	37	12	65	33	23	2	1	16	21	12	45		
Other	37	19	44	12	6	37	37	56	12	62	6	12	25	37	6	16		
<u>Location</u>																2		
Urban	43	29	45	17	1	51	46	58	24	48	21	3	25	31	21	150	21	
Suburban	39	20	44	23	6	49	26	53	24	42	19	6	24	26	22	204	28	
Rural	34	18	33	15	2	54	41	69	37	55	17	3	20	37	15	344	47	
<u>Age Inst.</u>																		
Under 5 Y	34	15	45	21	8	40	25	64	19	36	11	2	17	25	25	47	6	
Bet. 5 & 10	35	23	37	19	4	56	40	67	39	58	19	5	25	38	16	324	54	
Bet. 10 & 20	29	33	49	14	-	59	59	55	20	55	25	6	25	27	22	51	7	
Over 20 Y	43	17	40	17	2	46	31	53	21	36	17	3	19	25	20	222	31	
<u>Enrollment</u>																		
Bet. 1500-4000	36	20	39	17	5	53	32	63	32	52	17	3	24	33	18	622	86	
Over 4000	40	25	41	25	5	45	26	55	26	36	29	9	17	28	22	104	14	
Totals:	N	266	151	286	131	25	380	271	447	226	359	135	29	165	237	135	726	100
	%	37	21	39	18	3	52	37	62	31	49	19	4	23	35	19	100	

*Terms used to indicate type of instructional format are defined in a brief glossary on page 24 at the conclusion of this paper.

TABLE VI
PACE USED BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Percentages)

<u>Type Inst.</u>	Self	Fixed	Class	Pace of Instruction			Other	N	Totals %
				Teacher	Achievement	Other			
Comp. C. Jr.	62	12	18	23	40	16	475	65	
Tech. Coll.	80	7	4	10	55	10	177	24	
Lib. A. Coll.	63	12	19	14	21	14	43	6	
Other	69	6	6	31	31	12	16	2	
<u>Location</u>									
Urban	63	9	13	22	45	14	150	21	
Suburban	67	10	13	19	36	16	204	28	
Rural	69	11	16	17	47	12	344	47	
<u>Age Inst.</u>									
Under 5 y	64	15	13	25	51	13	47	6	
Bet. 5 & 10	71	9	14	15	45	11	394	54	
Bet. 10 & 20	75	12	4	16	41	23	51	7	
Over 20 y	60	11	17	26	36	18	222	31	
<u>Enrollment</u>									
Bet. 1500-4000	66	11	16	20	43	14	622	86	
Over 4000	67	8	11	22	39	16	104	14	
Totals:	N-	479	77	110	145	310	726	100	
	%	66	11	15	20	43	14	100	

TABLE VII
ACHIEVEMENT MEASURES USED BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

							N	%
Criterion	Norm	Individ	Other	Not Given			N	%
Type Inst.								
Comp. C. Jr.	55	16	44	13	3	475	65	
Tech. Coll.	71	10	27	6	3	177	24	
Lib. A. Coll.	42	16	42	7	5	43	6	
Other	50	19	50	6	6	16	2	
Location								
Urban	61	11	41	6	3	150	21	
Suburban	58	17	43	12	3	204	28	
Rural	56	14	33	11	4	344	47	
Age Inst.								
Under 5 y	47	19	53	17	-	47	6	
Bet. 5 & 10	61	14	39	10	4	394	54	
Bet. 10 & 20	67	6	33	6	6	51	7	
Over 20 y	53	6	40	12	4	222	31	
Enrollment								
Bet. 1500-4000	58	16	39	10	3	622	86	
Over 4000	58	9	42	10	6	104	14	
Totals:	N	418	109	288	75	726	100	
	%	58	15	40	10	4	100	

Criterion (58%) and/or individual (40%) achievement measures are preferred by most practitioners (Table VII). Normative evaluation is checked by only fifteen percent of the practitioners. Seventy-one percent of the technical college practitioners select criterion measures compared to forty-two percent of the practitioners from liberal arts colleges.

The researchers observe that practitioners seem to be quite alike with respect to selection of format, pace, and achievement measures. Apparently the procedural description of format, pace and achievement measures for individualized instruction are not strongly related to institutional descriptions of type, location, age or size. Practitioners apparently select procedures rather pragmatically...because they work for them under the conditions surrounding their institutional situation.

Evaluation of Individualized Instruction

Few practitioners have completed any evaluation of their individualized instruction procedures. Table VIII data indicates that only seven percent have completed any research, fifteen percent a survey, and fifty-eight percent have not completed any systematic evaluation. Many practitioners express an interest in evaluating the practice of individualized instruction and most of these are willing to share the results of their experience. Some kind of evaluation seems to have been used by about forty-seven percent of the practitioners in comprehensive community colleges, about fifty-two percent of the practitioners in urban colleges, and forty-nine percent of the practitioners in the larger two-year colleges.

The researchers were not surprised by the relatively small number of practitioners reporting any evaluation of individualized instructional procedures. Indeed our contact with these practitioners suggests that these teachers are so busily engaged in developing materials, working with students, and improving techniques that evaluation is crowded out. The researchers also note that most practitioners tend to be rather modest individuals and that they are hesitant to share a practice which is not perfected. This lack of evaluation is unfortunate in that the practice appears to have many appealing attributes.

TABLE VIII
EVALUATION BY PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

<u>Type Inst.</u>	Research Completed	Survey Completed	Status of Evaluation			Totals		
			No Evaluation Completed	Other Evaluation	Share Results	Negative Response	N	%
Comp. C. Jr.	9	17	53	21	38	10	475	65
Tech. Coll.	4	10	67	19	21	7	177	24
Lib. A. Coll.	5	12	74	9	28	7	43	6
Other	6	6	75	6	12	12	16	2
<u>Location</u>								
Urban	7	13	48	23	27	13	150	21
Suburban	11	15	57	16	38	9	204	28
Rural	5	15	64	20	32	8	344	47
<u>Age Inst.</u>								
Under 5 y	4	17	66	32	43	4	47	6
Bet. 5 & 10	8	13	60	16	29	11	394	54
Bet. 10 & 20	8	6	55	39	47	8	51	7
Over 20 y	7	19	54	19	34	8	222	31
<u>Enrollment</u>								
Bet. 1500-4000	7	15	59	19	32	10	622	86
Over 4000	8	11	51	26	35	8	104	14
Totals:	N	54	106	421	143	236	69	726
	%	7	15	58	20	32	9	100

Practitioners Motivation to Use Individualized Instruction

As displayed in Table IX practitioners are frequently self-motivated to use individualized instruction. Most indicate that personal experience (65%) served as a prime motivation to use individualized instruction. Contact with innovative teachers (32%) and/or administrative emphasis (34%) were also cited as reasons for using individualized instruction. Technical college teachers indicate administrator (56%) emphasis more frequently than personal experience (43%). Practitioners from colleges less than 5 years old report personal experience (85%) more often than administrative emphasis (13%).

Response to the questions regarding motivation lead the researchers to observe that the decision to use individualized instruction is usually an individual decision. It is true that many administrators are advocates of individualized instruction. It is also true that several organizations, some university teachers and some roaming consultants sell the merits of individualized instruction.

However, based on the respondents in this study we observe again that the practice of individualized instruction seems to grow from the innate desires of the individual teacher to cause more students to learn more of what he (she) has to teach.

Practitioners' Opinions about Individualized Instruction

Table X is used to record the responses of practitioners with respect to questions regarding cost-effectiveness, student achievement, student preference, teacher threat, and future use of individualized instruction. Overall, practitioners report that individualized instruction, compared to other instruction, is more cost-effective (2:1), increases student achievement (26:1), is preferred by students (10:1), is not threatening to teachers (4:1), and will increase in use (27:1)...A pretty strong endorsement of the practice.

Teachers from technical colleges are more likely to cite increased cost-effectiveness (4:1), lower teacher threat (6:1), and probable increased use (88:1). Liberal arts college teachers are evenly split on the cost-effectiveness question.

TABLE IX
MOTIVATION OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

<u>Type Inst.</u>	Personal Experience	Contact	Motivation to Use	Totals		
				Administrative	Not Given	N
Comp. C. Jr.	73	36	28	4	475	65
Tech. Coll.	43	23	56	5	177	24
Lib. A. Coll.	77	39	26	-	43	6
Other	62	31	25	-	16	2
<u>Location</u>						
Urban	65	35	42	5	150	21
Suburban	71	33	26	3	204	28
Rural	62	31	37	4	344	47
<u>Age Inst.</u>						
Under 5 y	85	36	13	-	47	6
Bet. 5 & 10	59	29	38	5	394	54
Bet. 10 & 20	63	39	29	8	51	7
Over 20 y	14	38	35	3	222	31
<u>Enrollment</u>						
Bet. 1500-4000	65	31	34	14	622	86
Over 4000	66	40	34	8	104	14
Totals: N	475	235	247	34	726	100
%	65	32	34	5	100	

TABLE X
OPINION OF PRACTITIONERS OF INDIVIDUALIZED INSTRUCTION
(Row Percentages)

Type Inst.	Cost-Effectiveness More/Less	Student Achievement Inc.	N	Totals			
				Student Preference Pref.	Teacher Threat N.Pref.	Future Use Inc.	Dec.
Cmp. C. Jr.	49	26	84	3	71	6	18
Tech. Coll.	65	16	84	2	81	5	12
Lib. A. Coll.	30	30	86	4	79	9	14
Location							
Urban	51	17	83	1	73	8	19
Suburban	44	29	82	3	69	6	21
Rural	57	22	85	3	78	5	12
Age. Inst.							
Under 5 y	38	25	91	-	79	4	6
Bet. 5 & 10	55	23	85	3	76	6	15
Bet. 10 & 20	61	18	78	4	67	8	18
Over 20 y	49	23	81	2	73	5	19
Enrollment							
Bet. 1500-4000	53	24	84	3	75	6	15
Over 4000	46	20	79	4	69	10	18
Totals:	N	378	16.8	608	23	537	48
	%	52	2.3	84	3	74	7
						114	492
						587	25
						71	8
						81	3
						622	86
						104	14
						726	100
						3	100

The opinions expressed by teachers using individualized instruction constitute overwhelming support for the practice. These opinions also provide a rich source for future research. The cost-effectiveness question has been rather extensively researched by Berchin (11) in a national study supported by Harold S. Sloan and the League for Innovation in the Community College. Berchin's study generally supports the conclusion that the cost-effectiveness of individualized instruction is greater than the cost-effectiveness of most other types of college instruction.

Student achievement, however measured, also lends itself to much future research. The interaction between format, pacing, and other conditions needs to be carefully investigated with respect to achievement. A study completed by the senior researcher (4) indicates a strong interaction between scholastic ability and criterion evaluation of achievement.

Student preference and potential teacher threat aspects of a new technique, such as individualized instruction, should also provide future researchers with an appropriate challenge. We note that students tend to support their teachers and that innovative teachers are seldom threatened by self-initiated change. Perhaps researchers need to investigate preference and/or threat in terms of group dynamics, governance situations, communication flow, intrinsic and extrinsic rewards, etc.

If the increased use of individualized instruction is related to internal forces such as the heterogeneity of students and learner needs, the practice will undoubtedly continue to grow. However, if the growth of the practice is related to some external forces, such as fashion, or administrator emphasis, the practice will eventually give way to some other idea.

The writers believe that the practice of individualized instruction is supported by internal forces which will tend to increase during the next several years.

We also believe that the practice is supported by some rather powerful psychological arguments.

As teachers become more familiar with the role of "manager of a learning system" the practice will undoubtedly continue to grow. The managerial role removes the teacher from the center of attention and may, thus, tend to slow the growth of individualized instruction. On the other hand, the teacher's managerial role automatically places the course objectives as the prime hurdle for the learner and the teacher becomes an advisor, motivator, and ultimate source of help for the learner to achieve the course requirements.

We believe that individualized instruction in all its forms constitutes a powerful practice that will continue to grow because its time has come.

SUMMARY AND CONCLUSIONS

It is always difficult in an open-ended study to derive much in the way of "conclusions". Much of the value of such a study, we believe, lies in the presentation of percentage data which may arouse more specific research interests in the reader relating to individualized instructional practices.*

Several questions seemed to be rather specifically answered in this study. The simple fact of 1000 practitioner responses from 140 community-junior colleges representing all 19 states surveyed seems to clearly answer the question regarding the status of individualized instruction in community-junior colleges identified as members of the Council of North Central Association. Individualized instruction, in all types of two-year colleges, public and private, is alive and seems to be doing fairly well!

Although the researchers' hope of identifying profile characteristics of

*And, conversely, one of the problems associated with such a study has to do with what data to include and what to leave out...obviously, much of the data collected has not been presented in this report.

institutions wherein individualized instruction seems to thrive, or profile characteristics of practitioners which would tend to distinguish them from the average community-junior college teacher, were not realized, the survey forms themselves consistently provided an answer to another question...what is the most common factor associated with practitioners of individualized instruction in all disciplines in all types of institutions? The answer...they are extremely busy people who spend an inordinate amount of time with their students.

Although few of them seemed familiar with the terminology prevalent in the literature and used in the survey to identify particular types of individualized formats, paces, evaluation procedures, etc., most were able to describe quite succinctly what they are doing, why they are doing it, and how well they think it works. Most indicated that they were so busy dealing with students and their learning problems that they did not have time to formally evaluate their instructional procedures.

Finally, a few of the respondents wrote marginal notes on the survey forms expressing their skepticism about the possible benefits of such a study... they seemed to feel that if the researchers were not going to be able to capture a realistic understanding of the tremendous time commitment to students associated with individualized instructional approaches as a result of the survey, all of the questions relating to characteristics of teachers and/or their particular individualized approach would be about as valuable as a quote taken out of context. We hope that they will have an opportunity to read this summary and see that their concerns were not ignored!

Glossary

For the purposes of this report the writers have developed a glossary so as to clarify the use of terms related to individualized instruction.

Individualized Instruction - Any practice which provides one or more of the following: individual learning activities and/or individual pacing of instruction and/or individual evaluation of learner achievement.

Audio tutorial - A method of individualized instruction which uses an audio message as a main element of instruction along with other learning activities.

Auto tutorial - A method of individualized instruction which leads the student through a series of learning activities which may include audio, visual, work book, lab activities, etc.

Programmed - A method of individualized instruction which leads the student to interact with a series of stimuli, each requiring an active response.

Contract - A method of individualized instruction which is based on a learning contract developed cooperatively between a student and a teacher...the contract usually specifies outcomes, activities, evaluation, and time for completion.

Keller - A method of individualized instruction developed by Fred Keller, a psychologist...the method uses student tutors as well as other learning activities.

Laboratory - A method of individualized instruction which uses a learning laboratory to provide appropriate learning activities.

Packaged - A method of individualized instruction which gathers all the learning materials into a carefully designed stand-alone package.

Personalized - A method of individualized instruction which is based on face-to-face interaction between the teacher and student related to learning outcomes, activities, and evaluation.

Project - A method of individualized instruction which requires the learner to complete a project.

Audio-Visual - A method of individualized instruction which uses A.V. (usually tape-slide or tape filmstrip) sequences for specified learning.

Video - A method of individualized instruction which provides learner access to video sequences for specified learning.

Computer - A method of individualized instruction which uses a computer system as an interactive programmed instruction or as a mediator of the learning process or in a computational format.

Library - A method of individualized instruction which uses a central library as a prime source for learning specified outcomes.

Prescribed - A method of individualized instruction which requires the teacher to prescribe appropriate learning activities based on diagnosis of the learner.

Self Pacing - Learning rates determined by the learner.

Fixed Pacing - Learning rate determined by the course requirements.

Class Pacing - Learning rate determined by progress of the class as a whole.

Teacher Pacing - Learning rate determined by the teacher.

Achievement Pacing - Learning rate determined by learner achievement.

Criterion Measures - Achievement level, conditions, and extent preset by the course objectives.

Individual Measures - Achievement level, conditions, and extent set for each individual learner.

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APPENDIX A

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ARIZONA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Mrs. Jacqueline Schliefer	Office Educ.	Audio-tutorial; Programmed, Lao, Packaged, Audio-visual	Mohave Comm. Coll.	Kingman, AZ
John Leamy	Math	Programmed, Personalized	" " "	" "
Robert Abbott	Ind. Elect.	Programmed, Project, Personalized	" " "	" "
Phyllis Steinmann	Math	Peer teaching	Scottsdale Comm. Coll.	Scottsdale, AZ
Roger Slater	Reading	Audio-tutorial, Auto- tutorial, Audio-visual, Laboratory	" " "	" "
Doris Lueck	Adult Ed-minor Hospital Educ. Nursing	Audio-tutorial, Auto- tutorial, Programmed, Laboratory, Packaged, Personalized, Audio- visual, Video, Library, Prescribed, Group Dynamics, Role playing, some Lecture, Learning exper. primary	" " "	" "
Dr. Robert C. Gray	Biology	Audio-tutorial, Auto- tutorial, Programmed, Laboratory, Personalized, Audio-visual, Library	" " "	" "
Anne Shindler	Business Educ.	Audio-tutorial, Auto- tutorial, Programmed, Laboratory, Packages, Personal- ized, Audio-visual, Prescribed	Phoenix College	Phoenix, AZ

ARIZONA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Martha Phillips	Business Educ.	Audio-tutorial	Phoenix College	Phoenix, AZ
Pete Pisciotta	Math	Audio-tutorial, Personalized, Prescribed	Glendale Comm. Coll.	Glendale, AZ
--	Accounting	Audio-tutorial, Packaged, Personalized, Audio-visual	Mesa Community Coll.	Mesa, AZ
Andree J. Messali	Languages	Audio-tutorial, Programmed, Library	" " "	" "
Betty Gozesky	Music	Audio-tutorial, Lab, Computer	" " "	" "
Lucille Groenke (Mrs.)	Math	Audio-tutorial, Programmed, Modified Keller, Personalized, Audio-visual, Video, Computer, Library, Prescribed	" " "	" "
Richard Snider	Drama/Humanities	Audio-tutorial, Programmed, Packaged, Audio-visual, Library	Pima College	Tucson, AZ
Patricia Hurly	Physics	Audio-visual, Computer Student Contracts	" " "	" "
Charles Camp	Electronics	Programmed	" " "	" "
--	Elec./Math	Programmed, Contract	" " "	" "
James E. Sherman	Engineering	Keller	" " "	" "
James P. Wesselmann	Math/Engr.	Self-instruction	" " "	" "

ARIZONA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Norbett Pittner	Math/Computer Sci.	Contract, Lab, Computer	Pima College	Tucson, AZ
Larry J. Solomon	Music	Audio-tutorial, Programmed, Lab, Personalized, Audio-visual	"	"
Sharon Welch	Office Education	Audio-visual	"	"
Dr. Laurence J. Victor	Psych/Physics	Personalized Individualized Objectives	"	"
Charles Fletcher	Air Cond Tech	Programmed, Lab, Packaged, Project, Audio-visual, Library	"	"
Emily Preskar	Computer Sci	Audio-tutorial, Programmed, Lab, Personalized, Computer	"	"
Carmelita Anson	Reading/English	Audio-tutorial, Programmed, Lab, Personalized, Audio-visual, Prescribed	"	"
Francis J. Scheuring	Accounting	Personalized, Audio-visual	"	"
Mary Macon	Bus/Office Educ	Audio-tutorial, Programmed, Lab, Packaged, Personalized, Project, Audio-visual, Library, Prescribed	"	"
Jay Spillman	Auto Tech	Audio-tutorial, Lab, Personalized, Prescribed	"	"
Anthony Guglielmino	Aviation Mech/Metalurgy	Audio-visual, Prescribed	"	"

ARIZONA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
<i>Marvin Mandell</i>	<i>Drafting/Electronics</i>	<i>Programmed,Lab, Personalized,Audio- visual</i>	<i>Pima College</i>	<i>Tucson, AZ</i>
<i>Jess R. Lara</i>	<i>Education/Fine Arts</i>	<i>Work experience, Personalized,Student/ Supervisor Conferences</i>	" " "	" "
<i>James C. Mick</i>	<i>Machine Shop Tech</i>	<i>Lab,Project,Audio- visual,Prescribed</i>	" "	" "
<i>A.K. Krieg</i>	<i>Auto Tech</i>	<i>Programmed,Project</i>	" "	" "

ARKANSAS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Joy Ring	Business	Contract, "Laboratory, Packages, Personalized, Prescribed	Southern Baptist Coll.	Walnut Ridge, AR
Elouise Scott	Educ. English, Dev. St.	Auto-tutorial, Auto- tutorial, Programmed, Contract, Laboratory, Package, Personalized, Audio-visual, Prescribed	Arkansas State Univ.	Beebe, AR
Jerry D. Pugsley	Speech/Drama	Personalized, Project, Audio-visual, Library, Prescribed	Phillips County Comm. Coll. Helena, AR	
Dorothy Crauman	Nursing	Audio-tutorial, Auto- tutorial, Laboratory, Personalized, Project, Audio-visual, Library, Prescribed	" " " "	"
Mary King	Nursing	Audio-tutorial, Auto- tutorial, Laboratory, Personalized, Project, Audio-visual, Library, Prescribed	" " " "	"
Candace Krugh	Nursing	Audio-tutorial, Library, Audio-visual Personalized	" " "	"
Louis F. Ruman	Social Science	Contract	" " "	"

COLORADO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Ethel Sanders	English/Math/Reading	Programmed, Visual, Personalized	Colorado N.W. Comm.Coll.	Rangely, CO
Kathy Halverson	Secretarial Science	Audio-tutorial, Packaged, Personalized	" " " "	" "
James Sanders	Business Admin.	Programmed, Personalized	" " " "	" "
Phyllis Chowdhry	Chemistry, Biology	Keller	" " " "	" "
Edwin Ray	Chemistry/Math	Auto-tutorial, Project, MorganCommunity College	Fort Morgan, CO	
Darrell D. Cruea	Veterinary Physlgy.	Auto-tutorial, Keller, Laboratory, Audio-visual, Personalized	" " " "	" "
Carolyn Thornsby	GED-Learning Lab	Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Prescribed	" " " "	" "
Jean Danford	English	Contract	" " " "	" "
Chris Sullivan	Business Educ.	Contract, Auto-tutorial, Programmed, Personalized	" " " "	" "
Max Kari Winkler	Art, Art History	Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library	Colorado Mountain College	Glenwood Springs, CO

COLORADO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
--	Biology, Geology, Botany	Laboratory, Personalized, Project, Audio-visual, Video	--	--
J. K. Snobbe	Geography/Geology Physical Activities	Personalized, Project, Colorado Mountain Coll. Audio-visual	Glenwood Springs, CO	"
Theodore Magnuson	Photography	Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Library, Prescribed	" " "	" "
Thad J. Englert	Physics, Math	Laboratory, Personalized, Computer	" " "	" "
Dr. Michelle Baker	Biology	Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Project, Audio-visual	" " "	" "
Paul Stephney	Reading, Study Skills, Auto-tutorial, Laboratory, Personalized, Composition	" " "	" "	" "
Peter Marshall	Theatre/Acting	Contract, Laboratory, Personalized, Project, Library, Prescribed	" " "	" "
--	English	Audio-tutorial, Contract Audio-visual	--	--
--	Recreation-Educ.	Auto-tutorial, Programmed, Laboratory, Video, audio-visual	--	--

COLORADO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Melody Whitehouse	Composition	Personalized	Colorado Mountain Coll.	Glenwood Springs, CO
--	Secretarial Science	Personalized	"	" " "
Clay Boland	English	Personalized	"	" " "
Kelly Rae Hearn	Group Dynamic Educ.	Audio-tutorial, Autotutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video, Library Prescribed	"	" " "
Arnold E. Dollase	Sociology, Govt. Ethnic Studies, Geog.	Programmed, Project, Audio-visual	"	" " "
Bob Whitehouse	Psych., Rehab. Counseling	Contract, Project, Personalized, Audio-visual	"	" " "
--	Vocational	Programmed, Contract, Laboratory, Project, Personalized, Library	--	--
R. Vanderhurst	Veterinary Medicine	Auto-tutorial, Contract, Colorado Mountain Coll. Laboratory, Project, Audio-visual	Glenwood Springs, CO	
Robert Yust	Com. Art-ArtEduc. Electronics	Programmed, Laboratory, Personalized, Project Laboratory, Project, Personalized	" " "	" " "
--				--

COLORADO

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
<i>Susan Cribelli</i>	<i>GED Adult Basic Educ.</i>	<i>Audio-tutorial, Programmed, Packaged, Personalized, Audio-visual, Library, Prescribed</i>	<i>Aims Community College</i>	<i>Greeley, CO</i>
<i>Gerald L. Karst</i>	<i>Educ./Sociology</i>	<i>Auto-tutorial " Personalized</i>	" "	" "
<i>Sheri Linnell</i>	<i>Science</i>	<i>Personalized " "</i>	" "	" "
<i>Art Giesick</i>	<i>Engineering</i>	<i>Laboratory, Project, Personalized, Audio-visual, Prescribed</i>	" "	" "
<i>Ms. Esther Sims</i>	<i>Journalism</i>	<i>Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual</i>	" "	" "
<i>William L. Shell</i>	<i>Political Science</i>	<i>Personalized, Prescribed "</i>	" "	" "
<i>Chris Sneats, Jr.</i>	<i>Chemistry/Math</i>	<i>Audio-tutorial, Programmed, Laboratory, Personalized, Video, Computer</i>	" "	" "
<i>Barbara G. Crenshaw</i>	<i>Mental Health</i>	<i>Auto-tutorial, Contract</i>	<i>Community College of Denver</i>	<i>Denver, CO</i>
<i>Ruth M. Harboe</i>	<i>Nursing</i>	<i>Audio-tutorial, Autotutorial, Programmed, Contract, Laboratory, Packaged, Audio-visual, Library, Prescribed</i>	" "	" "
<i>Sue Watkins</i>	<i>Nursing</i>	<i>Auto-tutorial, Programmed, Contract, Laboratory, Personalized, Audio-visual, Video, Library, Prescribed</i>	" "	" "

COLORADO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Bridell West	Nursing	Audio-tutorial, Auto-tutorial, Programmed, Packaged, Library	Community College of Denver	Denver, CO
Thomas M. Vogl	Radiologic Tech.	Programmed, Packaged, Personalized, Audio-visual	"	" " "
Audrey Jones	Nursing	Programmed, Prescribed	"	" " "
--	Phys. Ed.	Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Project, Audio-visual, Library	"	" " "
Alma Mueller	Nursing	Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Audio-visual, Video	"	" " "
Cris Edwards	Dental Ass'tng.	Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed	"	" " "
Julie Nujills	Dental Ass'tng.	Programmed, Contract, Laboratory, Project, Audio-visual, Library	"	" " "
Gary J. Walker	Food Management	Laboratory, Packaged, Personalized, Project, Audio-visual, Video	"	" " "

COLORADO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Ed Brown	Welding	Project, Audio-visual	--	--
Hugh Adams	Welding	Audio-tutorial, Contract, Community Coll. of Denver	Denver	Denver, CO
		Laboratory, Personalized, Project, Audio-visual, Library		
Roland H. Seward	Welding	Laboratory, Personalized, " Audio-visual, Prescribed	" "	" "
Gerald S. Muirhead	--	Audio-tutorial, Programmed, Laboratory, Personalized	" "	" "
M. Minamoto	Voc-Tech	Laboratory, Personalized, " Project, Audio-visual, Library	" "	" "
--	Machine Shop	Laboratory, Project, " Personalized	" "	" "
Everett Moutze	Machine Shop	Laboratory, Packaged, " Audio-visual, Library	" "	" "
Jacobs Semp	Machine Shop	Audio-tutorial, Autotutorial, Laboratory, Packaged, Project	" "	" "
G. W. Langdorf, Jr.	Electronics	Auto-tutorial, Laboratory, " Packaged	" "	" "
--	Electronics	Laboratory, Packaged, " Personalized, Audio-visual	" "	" "
Wm. S. Payne	Ind. Voc.Draftng.	Programmed, Packaged, " Labo-tory, Project	" "	" "

COLORADO

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Louis E. Bynum	Design/Drafting	Packaged, Personalized	Community Coll. of Denver	Denver, CO
--	Automotive Mech.	Laboratory, Audio- visual, Personalized, Library	"	" " "
Aaron Taylor	Auto Mech	Audio-tutorial, Programmed, Packaged, Personalized, Project, Audio-visual	"	" " "
--	Auto Mech	Packaged, Personalized, Audio-visual, Prescribed	"	" "
Donald E. Daffin	Auto Mech	Auto-tutorial, Laboratory, Personalized, Audio-visual	"	" "
--	Auto Mech	Auto-tutorial, Auto-tutorial, Personalized	"	" "
Louis Vandijke	Social Sciences	Contract, Project, Personalized	"	" "
Jane B. Belker	English	Audio-tutorial, Programmed, Laboratory, Packaged, Video, Personalized, Audio-visual, Library, Prescribed	"	" "
John H. Robinson	Sociology/Hist.	Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Library	"	" "
Raymond Boersma	Math	Audio-tutorial, Auto- tutorial, Personalized, Audio-visual, Video, Prescribed	"	" "

COLORADO

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
James E. Hannaford	Biology	Audio-tutorial, Programmed, Community Coll. Contract, Keller, Personalized, Audio-visual, Prescribed	of Denver	Denver, CO
Dr. Robert A. Taylor	Inorg. Chemistry	Programmed, Personalized. Audio-visual	"	" " "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Douglas Gearke	Economics	Audio-tutorial, Programmed, Packaged	Moraine Valley Comm.Coll.	Palo Hills, Ill.
Denny Freese	English	Programmed, Contract, " " " " " " " " Personalized, Audio-visual, Prescribed	" " " " " " " "	" " " "
Norman Rees	Math	Auto-tutorial, Programmed, " Personalized	" " " " " " " "	" " " "
Terry Dopp	Math	Programmed, Personalized	" " " " " " " "	" " " "
Ron Hall	Math	Programmed, Packaged, Personalized, Prescribed	" " " " " " " "	" " " "
Shirley Everingham	Nursing	Auto-tutorial, Auto-tutorial, Programmed, Laboratory, Audio-visual, Library	" " " " " " " "	" " " "
Beatrice Chioldini	Nursing	Auto-Tutorial, Auto-tutorial, Programmed, Laboratory, Audio-visual, Library	" " " " " " " "	" " " "
Karen Jean Betts	Nursing	Auto-tutorial, Auto-tutorial, Programmed, Personalized, Audio-visual, Library	" " " " " " " "	" " " "
Hazel LeFevre	Nursing	Auto-tutorial, Auto-tutorial, Laboratory, Packaged, Audio-visual, Library	" " " " " " " "	" " " "
Terry J. Stanley	Occupational Educ.	Lab, Packaged	" " " " " " " "	" " " "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Lenette Staudinger	Biology	Programmed, Laboratory, Moraine Valley Comm.Coll., Project	Palos Hills, Ill.	
Carolina Gonzales	Nursing	Laboratory, Audio-visual, " Personalized	" " "	" "
Richard A. Fritz	Math	Audio-tutorial, Auto-tutorial, Programmed, Audio-visual	" " "	" "
James F. Higgins	Math	Audio-tutorial, Programmed, Personalized	" " "	" "
--	Medical Term.	Contract, Programmed, Personalized	" " "	" "
Gerry Gill	Exceptional Educ.	Contract, Project, Audio-visual	" " "	" "
--	Biology	Programmed, Laboratory, " Audio-visual	" " "	" "
Mr. Joseph A. Jiria	Sociology	Programmed, Packaged, Personalized, Audio-visual, Library	" " "	" "
Marilyn Twining	Physical Ed	Programmed, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed	" " "	" "
Thomas J. McCague	Anat/Physiology	Audio-tutorial, Programmed, Contract, Laboratory, Audio-visual, Library, Prescribed	" " "	" "

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
	Nursing	Audio-tutorial, Auto-tutorial, Personalized, Audio-visual	Moraine Valley Comm. Coll.	Palo Hills, Ill.
Robert K. Dugan	Industr. Tech.	Audio-tutorial, Contract, Laboratory, Personalized, Project	"	" " "
John P. Gallagher	Geography	Audio-tutorial, Auto-tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video, Computer, Library, Prescribed	"	" " "
James F. Adduci	Political Sci.	Auto-tutorial, Packaged, Audio-visual	"	" " "
Ronald Svara	Math	Audio-tutorial, Programmed, Laboratory, Packaged, Audio-visual, Video, Computer	"	" " "
Dr. Paul Lawrisuk	Interm. Algebra	Audio-tutorial, Laboratory, Personalized, Video	"	" " "
Joanna Kivaitis	Biochemistry	Laboratory, Personalized, Prescribed	"	" " "
Edmund Vasiliauskas	Chemistry	Audio-visual, Videotape	"	" " "
James Scheer	Elect. Tech.	Programmed, Contract, Laboratory, Personalized, Project, Library	"	" " "
Louann Tiervan	Speech/Germ Lit	Contract, Laboratory, Packaged, Project, Audio-visual, Library	"	" " "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Walter G. Gerth	English/Lit	Auto-tutorial, Laboratory, Personalized Programmed, Personalized Audio-visual	McHenry County College	Crystal Lake, Ill.
Karen L. Schwitters	Social Studies/Reading	Programmed, Personalized	"	"
Charles O. Ham, Jr.	Linguistics	Auto-tutorial, Laboratory, Personalized, Audio-visual	"	"
Prof. Marshall G. Hassemiller	Soc/Anthro	Auto-tutorial	"	"
Eleanor M. Yelvington	Business	Auto-tutorial, Laboratory	Moraine Valley Comm.Coll.	Palos Hills, Ill.
Calvin C. Kuehner	Botany/Mycology	Programmed, Contract, Laboratory, Personalized, Project, Audio-visual, Library, Prescribed	"	"
Lois Angle	Business Admin.	Laboratory, Personalized, Project	"	"
Betsy Horlaung	Chemistry	Laboratory	"	"
Mitchell Povsner	Psychology	Packaged, Project, Personalized, Audio-visual	"	"
Robert Juracka	Nursing	Programmed, Audio- visual, Personalized	"	"
	Biology	Auto-tutorial	"	"
		Laboratory, Project, Library, Personalized	"	"

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Wilma Hunter	Business Educ.	Audio-tutorial, Autotutorial, Contract, Laboratory, Packaged, Personalized, Project, Audio-visual, Library	Southeastern Ill. Coll.	Harrisburg, Ill.
Ms. Mary Jo Oldham	Home Econ.	Packaged, Project, Audio-visual, Library	"	"
George West	English	Personalized	"	"
Mr. Lynn R. Clark	Biology	Audio-tutorial, Autotutorial, Programmed, Laboratory, Packaged, Audio-visual	"	"
James D. Armour, Ph.D.	Psychology	Personalized, Project, Library, Prescribed	"	"
Carole Scambray	Remedial Writing	Laboratory	Kendall College	Evanston, Ill.
Elizabeth Canor	Reading	Laboratory, Programmed, Contract, Personalized	"	"
Ms. Cecilia Cooper	Math	Programmed, Laboratory, Personalized, Prescribed	"	"
Ann Adams	English	Audio-tutorial, Programmed	MacCormac Jr. College	Chicago, Ill.
Mary Zehorak	Typing	Audio-tutorial, Packaged, Audio-visual	"	"
Susan Vessels	Shorthand	Audio-tutorial, Packaged	"	"

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Marion Ronlinger	Botany	Audio-tutorial, Programmed, Laboratory	Lakeland College	Mattoon, Ill.
Richard Heller	Am. History, Econ.	Audio-tutorial, Packaged	"	"
Dennis A. Gathmann	Life Science	Audio-tutorial, Laboratory, Personalized, Audio-visual	"	"
Joyce Allen	Psychology	Programmed, Project	"	"
Gerald L. Parker	Economics	Programmed, Project, Personalized	"	"
Talaat K. Mitri	Life Science	Audio-tutorial, Personalized	"	"
Joe L. Danley	Chemistry	Audio-tutorial, Keller, Laboratory, Personalized, Audio-visual	"	"
Dave Lapan	Health/Phys. Ed.	Auto-tutorial Laboratory, Personalized, Library	"	"
Cletis Underwood	Composition/Lit.	Auto-tutorial, Packaged, Audio-visual, Prescribed	"	"
Harold Strangeman	Sociology/History	Audio-tutorial, Contract, Personalized, Audio-visual, Library	"	"
Larry Gutzler	Biological Sciences	Audio-tutorial, Programmed, Laboratory, Packaged, Personalized	"	"

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Roy M. Culp	Life Science/Botany	Audio-tutorial, Laboratory, Packaged, Personalized	Lakeland College	Mattoon, Ill.
Donald R. Garren	Life Science/Biology	Audio-tutorial, Programmed, "Laboratory, Packaged, Personalized	"	"
Jane Deters	Life Sciences	Audio-tutorial, Programmed, "Laboratory	"	"
Helen R. Smith	Health Ed.	Personalized	"	"
William J. Little	Economics	Personalized, Audio-visual, Video	"	"
Wayne Weaver	Math	Audio-tutorial, Laboratory, Personalized	"	"
Dale A. Holm	Chemistry	Auto-tutorial, Programmed, Keller, Laboratory, Personalized, Computer	Parkland College	Champaign, Ill.
Snirley Clausen	Bus/Office Educ	Audio-tutorial, Packaged, "Audio-visual	"	"
Luella N. Snyder	English/Math/Counseling	Audio-tutorial, Programmed, "Auto-tutorial, Contract, Laboratory, Packaged, Personalized, Audio-visual, Computer, Library, Prescribed	"	"
Charles Beetz	Curriculum Design	Audio-tutorial, Programmed, "Contract, Keller, Laboratory, Personalized, Video	"	"

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Soter G. Kokalis	Chemistry	Keller	Harper College	Palatine, Ill.
Mike Carroli	Math	Laboratory, Personalized, Video	"	"
L. King	History	Contract, Personalized	"	"
Kenneth E. Jauch	Engineering/Electronics	Contract, Project	"	"
Roger A. Mussell	Educ/Engineering	Audio-tutorial, Contract, Laboratory, Personalized, Project, Video, Computer, Library	"	"
Starrie Hildebrandt	Legal Tech	Contract, Project, Personalized	"	"
James R. Vojtisek	Psychology	Keller	Waukegan Community Coll.	Sugar Grove, Ill.
Helen Baker	Nursing	Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual, Video, Library	"	"
Paul R. Rickert	Indust. Educ.	Auto-tutorial, Laboratory, Packaged,	"	"
Martna Price	Secretarial	Audio-visual-Tutorial, Pro- grammed, Contract, Packaged, Personalized, Project, Audio- visual, Video, Prescribed	"	"
James Moreland	Welding	Auto-tutorial, Laboratory, Audio-visual	"	"

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Lee Schiedennel	Machine Tool Operation	Audio-tutorial, Laboratory, Project, Audio-visual, Prescribed	Raubonsee Community Coll.	Sugar Grove, Ill.
Jean Strausserger	Biology	Audio-tutorial, Laboratory, " " " " "		
Ray Whaley	Math/Astronomy	Audio-visual, Video Programmed " " " "		" "
Erna I. OConnor	Sec. Science/Mktng.	Auto-tutorial, Packaged, Video	Kishwaukee College	Maita, Ill.
Arger E. Davis	Data Proc/Bus.	Programmed " " " "		" "
Terry Martin	Biology	Contract, Laboratory, Personalized, Project, Prescribed " " " "		" "
Stanley G. Hagen	Mechanical Tech	Auto-tutorial, Laboratory " " " "		" "
Albert G. Besserman	Math	Programmed, Laboratory " " " "		" "
Mr. Ralph H. Hannon	Chemistry/Physics	Auto-tutorial, Contract, " " " "	Laboratory, Audio-visual	" "
Larry Paarmann	Electronics	Auto-tutorial, Laboratory, Packaged, Project " " "		" "
Ernest D. Harfst	Electronics	Auto-tutorial, Laboratory " " "		" "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Meg Conway	Adult Basic Educ.	Audio-tutorial, Auto-tutorial, Programmed Auto-tutorial, Programmed, Personalized, Prescribed	Black Hawk College	Moline, Ill.
Maria Van Speyraeck	GED	" " "	" "	"
Michael E. Payton	Adult Basic Educ.	Auto-tutorial, Programmed, Packaged, Personalized, Audio-visual, Prescribed	" " "	"
Linda Lindaman	Adult/Conting. Educ.	Audio-tutorial, Programmed, Packaged, Personalized, Audio-visual, Prescribed	" " "	"
Walter T. Hayes	Administration/Spec.Ed.	Audio-tutorial, Programmed, Personalized, Video, Prescribed	" " "	"
James Hall	Electronics	Programmed, Packaged, Personalized, Video, Computer	" " "	"
Philip K. Knouse	Electronics	Programmed, Laboratory, Packaged, Video, Computer	" " "	"
Tom Root	Botany, Biology	Auto-tutorial, Auto-tutorial, Audio-visual, Video	" " "	"
Garnet Barber	Spanish	Audio-tutorial, Prescribed	" " "	"
--	Speech/Hist/Educ	--	" " "	"
--	Psych/Soc	Audio-tutorial, Contract, Project, Prescribed	" " "	"

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Joan R. Grotzinger	Psychology	Programmed, Personalized	Black Hawk College	Moline, Ill.
Roger A. Perley	Music	Audio-tutorial, Programmed, Personalized, Prescribed	" " "	" "
--	Health/Phys Ed.	Programmed, Laboratory, Personalized Contract, Video	" " "	" "
James H. Parks	Music	Programmed, Contract, La- boratory, Personalized	" " "	" "
Thomas W. Kienle	Health/Phys Ed.	Programmed, Contract, La- boratory, Personalized	" " "	" "
F. L. Langenfeld	German	Audio-tutorial, Auto- tutorial, Contract, Laboratory, Personalized, Project, Library, Prescribed	" " "	" "
Ruth Bruck	English	Audio-tutorial, Programmed, contract, laboratory, Packaged, Personalized, Audio-visual, Video, Library	" " "	" "
Gordon Bates	Welding	Laboratory	" " "	" "
Jane Schmidt	English	Laboratory, Personalized, Project, Audio-visual, Video, Library, Prescribed	" " "	" "
Robert L. Custer	Shop/Tech Math	Programmed, Laboratory, " Personalized	" " "	" "
Hadley Kurtz	Drafting	Laboratory, Audio-visual, Video	" " "	" "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Hardy Hansson	Business Educ.	Auto-tutorial, Programmed, Video	Black Hawk College	Moline, Ill.
Dr. Richard J. Henry	Engineering	Mixed lecture/individualized study, lab experiments	" " "	" "
Thomas H. Zwicn	Indust Tech	Programmed	" "	" "
Mary Stevens	English/Lit	Audio-visual, video	" "	" "
James L. Scott	Speech/Theat	Personalized, Project	" "	" "
Larry Raasca	Typing/Accounting	Programmed, Audio-visual	" "	" "
Marcia Top	English	Audio-tutorial, Autotutorial, Programmed	" "	" "
Philip Beckman	Math	Audio-tutorial, Programmed, Laboratory, Audio-visual, Library, Prescribed	" "	" "
Indust. Ec.		Audio-tutorial, Contract, Video, Personalized, Prescribed	" "	" "
E. J. Kilgus	Psychology/Soc	Audio-tutorial, Autotutorial, Laboratory, Contract, Personalized, Project, Computer, Library, Prescribed	" "	" "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
--	Art	Laboratory, Personalized, Project	Black Hawk College	Moline, Ill.
Marcella Rainey	Sociology	Contract, Personalized, Project	" " "	" "
Bruce Bernardi	Physical Educ.	Auto-tutorial, Contract, Laboratory	" " "	" "
Dr. Dolores Bultink	Communications	Laboratory, Library, Audio-visual	" " "	" "
Joseph Panik	Economics, Business	Project	" " "	" "
Noel ⁶ Adams	Counseling/Human Serv.	Contract, Project, Personalized	Sauk Valley College	Dixon, Ill.
Ricard E. Neapolitan	Math	Computer (PLATO)	Wright College	Chicago, Ill.
Esther Appler	Nursing/Admin	Audio-tutorial, Auto-tutorial, contract, Laboratory, Personalized, Audio-visual, Video, Library, Prescribed	Sauk Valley College,	Dixon, Ill.
--	Nursing	Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Video, Library	" " "	" "

ILLINOIS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
--	Nursing	audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Video, Library	Sauk Valley College	Dixon, Ill.
June Hieton	Nursing	Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project, Audio-visual, Video, Library, Prescribed	" " "	" "
Estner Langanecher	Nursing	Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Audio-visual, Video, Library, Prescribed	" " "	" "
Hack Warren	Child Care	Laboratory, Project, Prescribed	" " "	" "
Jar. Melurin	Nursing	Audio-tutorial, Auto-tutorial, Programmed, Packaged, Audio-visual, Video, Library	" " "	" "
Cindy Tegeler	Secretarial Sci.	Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual, video, Prescribed	" " "	" "

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
James Major	Math	Audio-tutorial	Sauk Valley College	Dixon, Ill.
Maxine Petersen	Psychology	Audio-tutorial, Auto-tutorial, Keller, Personalized, Library, Prescribed	" " "	" "
Marvin Dahlberg	Accounting	Audio-visual, Packaged	" "	" "
Phil Osborn	Administration	Programmed	" "	" "
Ann Jonson	Psychology	Programmed, Contract, Packaged, Personalized, Library	" "	" "
Karen Pinter	Reading, GED, Lit.	Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video, Prescribed	" "	" "
Chuck Walrath	Reading/Comp, GED	Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video, Prescribed	" "	" "
Diana Cavosie	Business Ed	Reading	Audio-tutorial, Programmed, Contract, Laboratory, Personalized, Audio-visual, Video, Prescribed	" "
			Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Audio-visual	" "

ILLINOIS

<u>NAME</u>	<u>OBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Mrs. Betsy Tatum	Business/English	Audio-tutorial, Auto-tutorial, Packaged, Personalized, Audio-visual, Video	Sauk Valley College	Dixon, Ill.
Sheryl Henkel	Secretarial Science	Audio-tutorial, Auto-tutorial, Laboratory, Packaged, Personalized, Audio-visual, Video, Prescribed	"	"
--	Nursing	Audio-tutorial, Auto-tutorial, "Programmed, Packaged, Audio-visual, Video, Library	"	"
--	Nursing	Audio-tutorial, Auto-tutorial, "Programmed, Packaged, Audio-visual, Video, Library	"	"
Viola Paulsen	Business Ed	Audio-tutorial, Auto-tutorial, "Programmed, Packaged, Audio-visual, Video, Library	"	"
Eugene L. Messbit	Pshcy, Soc	Contract, Personalized, Project, Audio-visual, Library	"	"
Ron Harjue	Bus Ed/School Admin	Programmed	"	"

ILLINOIS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Sally Reissig	Business-Secretarial	Audio-tutorial	College of Lake County	Grayslake, Ill.
Delores Rowlee	Business Mach/Shrthnd.	Teacher Prepared Mat.	" " "	" "
--	Business Ed.	Personalized	" " "	" "
James Suksi	Engineering	Personalized,Project	" " "	" "
Jack D. Cote	Gen. Biology	Keller,Personalized	" " "	" "

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INDIANA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
John D. Otten	Physical Science	Audio-tutorial, Laboratory, Audio-visual	North Iowa Area Comm.Coll.	Mason City, IOWA
E. R. Nutting	Biology	Audio-tutorial, Laboratory, Personalized, Audio-visual	" " "	" "
Jack S. Easton	Reading/Eng Comp	Personalized, Laboratory, Prescribed	" " "	" "
Charles Hines	Math	Programmed	" " "	" "
Mariestelle M. Brown	Communications	Audio-tutorial, Autotutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Prescribed	" " "	" "
Dennis Walker	Independent Learning Ctr.	Audio-tutorial, Autotutorial, Programmed, Packaged, Personalized	Southeastern Community Coll.	West Burlington, IOWA
Mrs. Laurine Paule	Eng/Reading	Audio-tutorial, Programmed, Laboratory, Personalized, Prescribed	" " "	" "
Kennett L. Johnson	Math/Reading/Psych	Programmed, Contract, Waldorf College Laboratory, Personalized, Project, Audio-visual Prescribed	Forest City, IOWA	" " "
Harvey Johnson	Biology	Audio-tutorial, Programmed, Laboratory, Packaged, Project, Personalized, Audio-visual, Library	" " "	" "

INDIANA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
James O. Hill	Economics	Programmed, Contract, Personalized, Keller	Vincennes Univ.	Vincennes, Ind.
Larry J. Lehman	Social Science	Audio-tutorial	"	"
M. David Meyer	U.S. History	Audio-tutorial, Packaged	"	"
Terry D. McCraney	Economics	Programmed, Packaged, Personalized	"	"
Franklyn H. Schroeder	Soc/Anthro	Radio-tutorial, Contract	"	"
David J. Messer	A.D. Nursing	Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video	"	"
Curtis A. Dnonau	Chemistry/Admin	Audio-tutorial, Packaged, Computer, Library	"	"
Martha S. Berry	Reading	Programmed, Laboratory, Personalized, Prescribed	"	"
Dr. Marriette G. Klinker English		Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Video, Library	"	"
Mrs. Maribel Page	Business/Econ	Auto-tutorial, Laboratory, Personalized, Audio-visual	"	"

INDIANA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Br. Pedro, CSC	Math	Auto-tutorial Programmed	Holy Cross J.C.	Notre Dame, Ind.
	History, Pol. Sci.	Personalized, Project, Audio-visual	Ancilla College	Donaldson, Ind.
Sister Lorraine Veldenz	Educ. Math	Personalized	" "	"
Sr. Mary Dolores Greifer	English	Personalized	" "	"
Dr. Chelsea Lawlig	Hist/Pol Sci	Auto-tutorial, Packaged	Vincennes Univ.	Vincennes, Ind.

KANSAS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Dorothy A. Weid	Nursing	Audio-tutorial, Programmed, Personalized, Audio-visual, Library	Dodge City Comm. Coll.	Dodge City, Kan.
Mrs. Kathy M. Flodder	Nursing	Contract, Laboratory, Personalized, Audio-visual, Video, Library	" " "	" "
Deane Gholson	Nursing	--	" "	" "
Rex Trauer	Biology	Audio-tutorial	" "	" "
Kathleen M. Arnett	Study Skills	Individual formats	" "	" "
Eunice J. Bowin	Business Admin.	Programmed, Laboratory, Labette Community Coll. Packaged	Labette Community Coll.	Parshns, Kan.
Ralph W. Gaier	Life Science	Auto-tutorial, Laboratory, Video, Multi-Audio-visual, Media	" "	" "
Gerold L. Hodgson	Physical Science	Auto-tutorial, Prescribed	Kansas City Kansas Comm. Coll.	Kansas City, Kan.
Ann Standerfer	Public Speaking	Contract	" "	" "
Veronica Kelly	Nursing	Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Project. Audio-visual, Video, Library, Prescribed	" "	" "
Sue Conoley	Nursing	Auto-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Library	" "	" "

KANSAS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Frank Howard	Physiology/Zoology	Audio-tutorial, Contract, laboratory, Packaged, Personalized, Project, Audio-visual, video, Library	Kansas City Kan. Comm.Coll. Kansas City, Kan.	Kansas City, Kan.
Philip E. Buechner, Jr.	Math	Audio-tutorial, Contract, Laboratory, Personalized, Audio-visual, video, Prescribed	Cowley County Comm.Coll.	Arkansas City, Kan.
Richard E. Tredway	Tech Agriculture	Audio-tutorial, Programmed, Laboratory, Audio-visual	" " "	" "
Larry L. Clark	Math	Audio-tutorial, Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Computer, Library, Prescribed	" " "	" "
Michael Watters	Chemistry	Audio-tutorial, Laboratory, Personalized, Audio-visual, Library, Prescribed, Behavioral Objectives, Mini-Courses	" " "	" "
Ariyn Parish	Sociology	Contract, Programmed, Personalized, Project, Audio-visual	Highland Comm. Jr. Coll.	Highland, Kan.
Ben L. Clay	Speech/Drama	Laboratory, Personalized, Project	" "	" "

KANSAS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Walter Post	Fine Arts	--	Highland Comm. Jr.Coll.	Highland, Kan.
James E. Arwine	Biology	Audio-tutorial, Programmed, Laboratory, Audio-visual	Independence Comm.Coll.	Independence Kan.
Carlene Smith	English/Voc Ed	Personalized, Prescribed	" " "	"
Bonnie B. Cox	Bus/Voc Ed	Personalized, Prescribed	" " "	"
Ken Vineyard	Psych/Soc	Contract, Personalized	" " " "	"
--	Physics	Laboratory, Personalized, Hutchinson Community Coll. Project, Audio-visual, Video, Computer, Library	Hutchinson, Kan.	
Dale Gleason	English	--	" " "	"
Dr. Thomas W. Shane	Religion	Personalized	" " "	"
Mrs. Arless Eilerts	English	Programmed, Contract, Laboratory, Packaged, Personalized, Audio-visual, Library, Prescribed	" " "	"
Jari Weidman	Electronics	Laboratory, Personalized, Video, Library	" " "	"
Dr. Frank M. Slapar	Tech Science	Contract, Laboratory, Video	" " "	"

KANSAS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Dr. Kay Dundas	Math	Audio-tutorial	Hutchinson Comm. Jr. Coll.	Hutchinson, Kan.
Dwight Roth	Soc.	Personalized, Field Experience	Hesston College	Hesston, Kan.
John M. Lederach	Religion, Educ.	Packaged	"	"
Loren D. Reusser	Bus. Ed./Bus. Adm.	Audio-tutorial, Audio-visual	"	"
Nelson Kilmer	Physics/Electronics	Programmed, Video	"	"
Jacob Friesen	Aviation	Auto-tutorial, Laboratory, Personalized, Prescribed	"	"
Phil Osborne	Psychology	Keller	"	"
Ms. Donna Youngblood	Business Ed.	Auto-tutorial, Programmed, Personalized, Project	St. John's College	Winfield, Kan.
Lee Stocker	Music Theory	Auto-tutorial, Laboratory, Personalized,	"	"
Mrs. Verona Fossick	Bus. Ed.	Auto-tutorial, Personalized	"	"
Eugene Brott	Higher Ed./Chem.	Audio-visual	"	"
Mrs. Elva Lee	Psychology	Auto-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Personalized, Audio-visual, Prescribed	Neosho County Comm. Coll.	Chanute, Kan.
Charles O. Carter, Jr.	Biology	Auto-tutorial, Laboratory, Audio-visual, Library, Prescribed	"	"

KANSAS

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Sr. Mary Ann Wirtz	Biology/Counseling	Laboratory, Personalized Project, Library, Prescribed	Donnelly College	Kansas City, Kan.
Donna Kyte	Chemistry	Audio-tutorial, Programmed, Personalized, Audio-visual	"	" "
Steve Scott	English	Audio-tutorial, Autotutorial, laboratory, Personalized, Library	"	" "
Delbert A. Jurden	History/Religion	Laboratory, Personalized	"	" "
Sr. Sean Moran	Math	Audio-tutorial, Programmed, Personalized, Library	"	" "
Harold Harp	Comp/Lit	Laboratory, Personalized	"	" "
Thomas M. Barnett	Chem/Educ/Math/Phys Sci	Audio-tutorial, Programmed, Laboratory, Personalized, Project, Audio-visual, Video, Library	"	" "
Jean Rider	Office Educ.	Programmed, Laboratory, Coffeyville Comm.Jr.Coll. Packaged, Personalized, Prescribed	Coffeyville, Kan.	" "
Sam Rawdon	Speech	Contract/Project, Personalized	"	" "

KANSAS

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Mrs. Mary Ann Pendleton	Business Educ.	Audio-tutorial, Laboratory, Packaged, Personalized, Video	Coffeyville Comm.Jr.Coll.	Coffeyville, Kan.
Frank R. Ortolani	Social Science	Audio-tutorial,Project, "Personalized, Audio-visual, Video, Library	" " "	"
James T. Nordin	Business Educ.	Personalized, Packaged "	" " "	"
Shirley McCormack	Business Admin	Laboratory	" " "	"
Billy R. Clark	Sociology	Audio-tutorial, Project,"Audio-visual, Library	" " "	"
Carolyn Cook	Office Education	Programmed, Laboratory, "Personalized, Audio-visual Video, Prescribed	" " "	"
Scott Brown	Biology	Audio-tutorial, Laboratory, Packaged, Project, Audio-visual, Video, Library	" " "	"

MICHIGAN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Louis Baca	Science/Math/Eng.	Programmed, Laboratory, Alpena Community Coll.	Alpena, Mich.	
Jack Randall	Science/Math/Eng.	Programmed, Laboratory "	"	"
Mary Lee Yatchak	Accounting	Programmed, Laboratory, Gogebic Community Coll. Packaged, Audio-tutorial, Modules	Ironwood, Mich.	
Maryann Novak	Nursing	Auto-tutorial, Programmed, Laboratory, Prescribed	"	"
--	Academy of Beauty	Laboratory, Personalized, Project, Audio-visual	"	"
D.B. Austin	Music Apprec.	Audio-tutorial, Audio- visual, Prescribed	"	"
R. Stanley Dicks	English	Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Prescribed	Muskegon Comm. Coll.	Muskegon, Mich.
Barney Herron	Math	Audio-tutorial, Programmed, Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Pre- scribed	"	"
Ms. Jean Daugherty	Personalized Lab	Audio-tutorial, Programmed, Contract, Lab, Personalized, Audio-visual, Video, Computer, Library, Prescribed	"	"

MICHIGAN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Don Goodman	Reading	Audio-tutorial, Auto-tutorial, Muskegon Comm.Coll. Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Library, Prescribed	Muskegon Comm.Coll.	Muskegon, Mich.
Leo Teholiz	Humanities	Personalized, Pre-scribed	West Shore Comm. Coll.	Scottsville, Mich.
Michael Syzmanski	Fine Arts	Laboratory, Personalized, Project, Audio-visual	" " "	" "
Larry G. Williams	Arithmetic	Audio-tutorial, Programmed, Schoolcraft Comm.Coll.	Livonia, Mich.	
Irene R. Woodall	Dental Hygiene	Auto-tutorial, Programmed, Kalamazoo Valley Comm.Coll.	Kalamazoo, Mich.	
Gloria Noble	Secretarial	Contract, Keller, Laboratory, Packaged, Project, Audio-visual, Video, Library	" " "	" "
Miss Scott	Nursing	Audio-visual-tutorial Keller, Laboratory, Audio-visual, Video, Prescribed	" " "	" "
Clarence F. Knight	Police Admin.	Programmed, Packaged, St. Clair County Comm.Coll.	Port Huron, Mich.	
F. Dale Cox	Fire Science	Laboratory, Personalized, Project, Audio-visual, Library, Prescribed	Macomb County College	Mt.Clemens, Mich.

MICHIGAN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
James Dingman	Sociology	Programmed, Packaged, Project,	Jackson Community Coll.	Jackson, Mich.
Henry McKeown	Bus.Ed/Eng/Higher Ed.	Programmed, Laboratory, Personalized, Project, Student Tutors	" " "	" "
---	Engineering	Programmed, Packaged, Personalized, Prescribed	" " "	" "
Dr. R. Neils Oman	Business Educ.	Audio-visual-Tutorial, Laboratory, Prescribed	" " "	" "
Arthur Kidd	Math	Programmed, Personalized	Monroe County Comm.Coll.	Monroe, Mich.
Donald E. Wanhalta	Biological Sciences	Audio-tutorial, Programmed	Suomi College	Hannock, Mich.
Frank Plaritz	Basic English	--	" "	" "
Wallace E. Anderson	History/Law Enf.	Packaged	" "	" "
Rob Roy	Art Educ./Dramatics	Personalized, Project, Audio-visual, Library	" "	" "
Tom Stuer	Media Communications	Personalized, Project	Itasca Community Coll.	Grand Rapids, Mich.
Thomas Adamson	Math	Audio-tutorial	" "	" "
Robert Scowol	Bio.Sciences	Audio-tutorial, Video, Personalized, Audio-visual	" "	" "

MICHIGAN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Rita Lally	Secretarial	Audio-visual-tutorial	Grand Rapids Jr. Coll.	Grand Rapids, Mich.
Lori Van'aastricht	Health Ed.	Lecture, Lecture-discussion, Audio-visual, Audio-tutorial	" " "	" " "
--	Nursing	Auto-tutorial, Lab, Personalized, Project, Audio-vidual, Modules	" " "	" " "
Marjorie Weisgerber	Nursing	Personalized, Project, Audio-visual, Library, Modules	" " "	" " "
Arthur M. Hyde	Accounting/Bus. Ed.	Audio-tutorial, Lab, Audio-visual	" " "	" " "

MINNESOTA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Orville Moran	English/Reading	Auto-tutorial, Programmed, Contract, Packaged	Austin Comm. Coll.	Austin, Minn.
Robert E. Toensing	Studio Arts	Personalized, Project	Anoka Ramsey Comm. Coll.	Coon Rapids, Minn.
James D. Conaway	Painting/Drawing	Laboratory/Personalized, Project, Audio-visual	" " " "	" "
--	Educ. Admin.	Contract, Personalized	" " " "	" "
Robert Bateson	EET/Computer Sci/Elect. Eng.	Keller, Prescribed, Personalized	" " " "	" "
Ralph Peterson	Economics	Audio-tutorial, Audio-visual, workbook exercises	" " " "	" "
Joyce M. Eunet	Business Educ.	Programmed, Laboratory, Personalized	" " " "	" "
Kathleen G. Woods	English/Reading	Audio-tutorial, Auto-tutorial, Programmed, Contract, Laboratory, Personalized, Project, Video, Library, Prescribed	" " " "	" "
Jerry Sculiep	Earth Sci/Biology	Audio-tutorial, Auto-tutorial, Lab, Audio-visual	Willmar Comm. Coll.	Willmar, Minn.
Adolph Belch	Office Educ.	Audio-tutorial, U. of Minn. Tech. Coll.	Crookston, Minn.	
William Peterson	Math	Programmed, Contract, Laboratory, Personalized, Project, Visual, Library, Prescribed	" " " "	" "
Gretchen Schwartz	Reading	Audio-tutorial	" " " "	" "

MINNESOTA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
L. Hertzmann	Math	Programmed	Normandale Comm. Coll.	Bloomington, Minn.
Adolph. Beich	Office Educ.	Audio-tutorial, Programmed, Project, Laboratory	U. of Minn.Tech.Coll.	Crookston, Minn.
William Peterson	Math	Audio-tutorial	" " "	" "
Gretchen Schwartz	Reading	Programmed, Contract, Laboratory, Project, Personalized, Audio- visual, Library, Pre- scribed	" " "	" "
Peter Maneno	Gen.Exp./Counseling/Psych.	Programmed, Contract, Keller, Lab, Personalized	Normandale Comm. Coll.	Bloomington, Minn.
Karen M. Hanson	Reading/Easic Skills	Audio-tutorial, Pro- grammed, Contract, Packaged, Personalized, Project, Audio- visual, Video, Library, Prescribed	" " "	" "
Dr. Richard Thompson	DDS/PII	Audio-tutorial, Personalized	Keller, Per-	" "
Hayne A. Becker	Anatomy/Physiology	Minicourse	" " "	" "
Judy Marwick Gustafson	Nursing/Educ.Psych.	Audio-tutorial, Pro- grammed, Contract, Lab, Audio-visual, Video, Library	" " "	" "
Rex Sala, LeRoy Gilbertson, Eugene Furringer	Chemistry	Audio-tutorial, Lab, Computer	Austin Community College	Austin, Minn.

MINNESOTA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Susan Vaughan	Music/Art	Lab, Personalized, Project.	Hibbing Comm. Coll.	Hibbing, Minn.
John Galliford	Psychology	Field work	" " "	" "
Thomas F. Palmersheim	Music Theory/Comp	Personalized, Project, Audio-visual, Library	" " "	" "
Molly Ortman	English	Personalized, Autotutorial, Prescribed, Library	" " "	" "
Eugene Sorensen	English	Programmed, Contract, Personalized, Prescribed	Rochester Community Coll.	Rochester, Minn.
Leonard W. Janssen	Social Science/Geog/Hist	Audio-tutorial, Project, Personalized, Library, Prescribed	" " "	" "
Irvin Blitzweit	Chemistry	Programmed	" " "	" "
Robert Zwart	English	Audio-tutorial, Programmed, Laboratory, Personalized	" " "	" "
Jean Johnson	Nursing	Audio-tutorial, Programmed, Laboratory, Personalized, Audio-visual, Video, Library	" " "	" "
Debraine C. Silker	Math	Audio-tutorial	" " "	" "

MINNESOTA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Kenneth E. Taylor	Psychology	Keller	No. Hennepin Comm.Coll.	Minneapolis, Minn.
Charles Long	Physics/Engr./Nat.Sci.	Keller	" " "	" "
Richard A. Langlie	Math	Audio-tutorial,Keller, Audio-visual,Prescribed	" " "	" "
Dr. John D. Jackson	Biology	Audio-tutorial,Audio- visual,Library,Prescribed	" " "	" "
Doris J. Keyerding	Accounting	Audio-visual, Lectures	" " "	" "
Marily C. Hass & Mary A. Cowden	Nursing	Audio-tutorial,Programmed, Lab,Packaged,Audio-visual, Video,Library	St.Mary's Jr. College	Minneapolis, Minn.
Joseph A. Reda	Medical Technology	Audio-tutorial,Programmed, Lab,Audio-visual,Packaged	" " "	" "
--	Respiratory Therapy	Contract,Lab,Packaged, Lecture	" " "	" "
Shirley Asklund	Nursing Admin.	Programmed	" " "	" "
Patricia Bacock	Occupational Therapy	Audio-tutorial,Contract, Lab,Audio-visual	" " "	" "
--	Medical Records Sci.	Packaged	" " "	" "

MISSOURI

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
--	Math	--	Florissant Valley Comm.Coll.	St. Louis, MO.
--	Math	Audio-tutorial, Auto-tutorial, Programmed, Lab, Personalized	" " " "	" "
S. Samples	Speech/Theatre	Auto-tutorial, Programmed, Contract, Packaged, Personalized, Project, Audio-visual, Video	" " " "	" "
Mrs. Jean Beaulieu	Eng Comp/Lit	Auto-tutorial, laboratory, Packaged, Personalized, Prescribed	" " " "	" "
Barbara French	English	Laboratory, Personalized	" " " "	" "
Eleanor McCluskey	Comp Lit/FR, Span, Eng	Programmed, Lab	" " " "	" "
Anita Taylor	Speech/Comm	Contract, Programmed, Packaged, Personalized, Project, Video	" " " "	" "
Alice Bante	Speech Path/Comm	Audio-tutorial, Lab, Personalized, Audio-visual Video	" " " "	" "
Diana J. Hedrick	Speech Comm.	Programmed, Contract, Packaged, Personalized, Project, Video	" " " "	" "

MISSOURI

Name	Subject Area	Format	Institution	Location
George A. Bunch	Sociology	Self-study	Pem Valley Comm Coll	K.C., Mo.
Chad Haywood	Gen Psych	Programmed, Personalized, Prescribed	" " "	" "
Joe Klassen	Hist/Gov	Keller, Audio-visual, Prescribed	" " "	" "
Forrest G. Lowe	Physics/Math	Audio-tutorial, Audio- visual, Computer	Longview Community Coll.	Lees Summit, Mo.
Michael Miller	Comp/Lit	Personalized, Project, Library	" " "	" "
Vivian A. Wilson	Comp/Lit	Contract	" " "	" "
Michael E. Benson	Adm. of Justice	Audio-tutorial, Contract, Library	" " "	" "
Richard D. Snaw	Business Law	Text/workbook	" " "	" "
Dr. John Kaczynski	Chemistry	Audio-tutorial, Keller, Packaged, Personalized, Audio-visual, Prescribed	" " "	" "
Aldo Leker	Business/Data Proc.	Audio-visual, Video Individual Instr.Packets	" " "	" "
Rowena Easter	Business/Sec.	Audio-tutorial, Lab, Audio-visual	" " "	" "

MISSOURI

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Doone Loughery	Business Educ.	Audio-tutorial, Programmed, Laboratory, Audio-visual	Longview Community Coll.	Longview, Mo.
Mrs. Shirley A. Smith	Business/Sec.	Audio-tutorial, Programmed, Laboratory, Audio-visual	"	" " "
-	French/Spanish	Independent/Text	"	" " "
John H. Watkins	Math	Audio-visual, Book/Class-room Instr., Sound-on Slide, Pre and Post-tests	Mineral Area College	Flat River, Mo.
Jasper H. Laudeau	Psych/Soc	Auto-tutorial, Packaged, Keller	"	" " "
James A. Gardner	Hist/Soc Sci	Personalized	"	" " "
Ginger D. Hampton	Eng/Lit/Speech	Packaged, Video, Project	"	" " "
Carl F. Painter	Physics/Engr.	Laboratory, Packaged, Prescribed	"	" " "
Elvis G. Clark	English Comp	Auto-tutorial	"	" " "
Al Putchett	Ed.	Personalized, Video, Audio-visual	East Central Jr. Coll.	Union, Mo.
Bill Landers	Math	Keller, Video, Personalized	"	" " "
Brian Nickey	Math/Econ	Self-paced wkbk	"	" " "
Ron Beeler	Math	Packaged, Video, small group disc.	"	" " "

MISSOURI

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Leroy H. Alt	Physics/Math	Personalized, Video, Prescribed	East Central Jr.Coll.	Union, Mo.
Lee M. Adams	Dev. English	Audio-tutorial, Programmed, Lab, Video, Personalized, Audio-visual	" " " "	" "
Paul Polette	Marketing	Personalized, Project, Prescribed	St.Mary's College of O'Fallon	O'Fallon, Mo.
Sister Bernice Moellering	Comp/Lit/Speech	Contract, Packaged, Personalized, Prescribed	" " " "	" "
Louis P.Pushkarsky	Math	Programmed, Personalized	Trenton Junior College	Trenton, Mo.
Don Clayborn	Bus.	Personalized	Trenton Junior College	" "
Nellua Claycomb	Business Ed.	Audio-tutorial, Programmed, Lab, Personalized	" " "	" "
Mrs. Carolyn Smith	Bus.Ed/Phys Ed.	Audio-tutorial, Programmed, Lab, Personalized	" " "	" "
Kennard D. Kelly	Sociology	Packaged/Project	Maple Woods Comm.Coll.	Kansas City, Mo
Sharon Calloway	Eng/Speech/Theat/Ed.	Personalized, Project, Audio-visual, Video, Library	" " " "	" " "
Donna Kay Croucher	--	Audio-tutorial, Auto-tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Video, Library, Prescribed	" " " "	" " "

MISSOURI

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Harry A. King	Am Hist/Govt	Programmed, Packaged, Personalized, Library, Prescribed	Maple Woods Comm.Coll.	Kansas City, Mo.
Ernest A. Cetto	Zoology	Audio-tutorial, Audio- visual, Library	" " "	" "
Ms.Gloria R. Director	English/Lit	Personalized, Project, Prescribed	" " "	" "
--	Amer Hist/Govt	Packaged, Project	" " "	" "
Mark E. Heimsoth	History	Personalized, Project, Library	St. Paul's College	Concordia, Mo.

MISSOURI

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
R. J. Heider	Chemistry	Auto-tutorial, Programmed, Contract, Keller, Lab, Personalized, Audio-visual, Library	Meramec Community Coll.	St. Louis, MO
Anna Marie Lottmann	French/Spanish	Programmed, Lab	"	"
A. J. Ostergaard	Indust. Educ.	Audio-tutorial, Contract, Keller, Lab, Packaged, Project, Audio-visual, Prescribed	"	"
Carol Miller	History	Audio-tutorial, Contract, Packaged, Audio-visual, Library	"	"
Jules Biegelser	History	Audio-tutorial, Auto- tutorial, Programmed, Contract, Personalized, Library	"	"
Lawrence J. McDoniel	English/Comm.	Audio-tutorial, Auto- tutorial, Contract, Programmed, Keller, Lab, Personalized, Project, Audio-visual, Video, Tutorial	"	"
Mrs. Barbara Chesman	Psych/English/Media	Audio-tutorial, Auto- tutorial, Programmed, Contract, Packaged, Personalized, Audio-visual, Library, Prescribed	"	"
Lawrence Klein	English	Audio-tutorial, Auto-tutorial, Programmed, Lab, Keller, Audio-visual, Personalized, Library, Prescribed	"	"

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NEBRASKA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
M. R. Gredesky	Math/Economics	Programmed Lab, Personalized, Lect/Lab	Northeast Nebr. Tech. Comm. Coll.	Norfolk, Nebr.
Larry Holland	Lit/Comp	Personalized	" " "	" "
Arthur Robertson	Math	Programmed, Lab, Packaged, Personalized	" " "	" "
Gary Miller	English	Lab, Personalized, Prescribed	" " "	" "
--	Air Cond.	Programmed, Lab, Personalized, Project, Library	Southeast Comm. Coll.	Wilford, Nebr.
--	Refig/Air Cond	Audio-tutorial, Programmed, Contract, Project, Audio-visual	" " "	" "
Larry Knauber	Air Cond.	Programmed, Lab, Personalized, Project, Audio-visual, Library	" " "	" "
--	Plumbing	Contract, Personalized, Audio-visual	" " "	" "
Civ. Engineering		Group/Class Lecture, Demonstrate, Test, Performance	" " "	" "
Orvis F. Wall	Math/Science	Prescribed	" " "	" "
R. Covert	Civ Tech	Contract, Lab, Personalized	" " "	" "

NEBRASKA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Steven D. Yates	--	Lab, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed	Southeast Comm. Coll.	Milford, Nebr.
--	Welding/Metallurgy	Laboratory, Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed	" " "	"
E. N. "Al" Havener	Tech/Trade Educ.	Lab/Packaged, Personalized, Project, Audio-visual, Video, Library, Prescribed	" " "	"
--	Electromechanical Tech/Math	Auto-tutorial, Programmed, Personalized, Prescribed	" " "	"
Kietn Boyle	Auto-mechanics	Packaged, Personalized, Project, Audio-visual, Prescribed	Central Tech Comm. Coll.	Hastings, Nebr.
Gary Minnick	Auto-mechanics	Laboratory, Packaged, Personalized, Project, Audio-visual, Prescribed	" " "	"
Vernon Lunsford	Auto-mechanics	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" " "	"
Juriette Thomsen	Auto-mechanics	Lab, Packaged, Personalized, Project, Audio-Visual, Prescribed	" " "	"
Richard Stelzer	Auto Refinishing	Lab, Programmed, Packaged, Personalized, Project, Audio-visual, Prescribed	" " "	"

NEBRASKA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Elmer Lykke	Automotive Metal	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	Central Tech Comm Coll	Hastings, Nebr.
Les Oelschlager	Diesel	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	" "	" "
Elwood Onken	Diesel	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
Leonard Shimek	Diesel	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
Hugh Johnson	Ag	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
Moreland Rucker	Horticulture	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
George Petr	Ag	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
Lavern VanBuskirk	Ag	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
Dwight Crawford	Environmental	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "
J. Dropal	Electronics	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	" "	" "

NEBRASKA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Kenneth Pitty	Electronics	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	Central Tech Comm Coll	Hastings, Nebr.
Carl Brown	Electronics	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
Eugene Young	Electronics	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
William Teller	Indust. Electronics	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
Bill Feigity	Electrical	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
Ron Keyser	Electrical	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
James Norman	Refrigeration	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
Wayne Faster	Refrigeration	Lab, Packaged, Personalized, " Project, Audio-visual, Prescribed	"	"
Allen Krueger	Air Cond.	Lab, Packaged, Personalized, Project, " Audio-visual, Prescribed	"	"
Walter Miller	Arch. Drafting	Lab, Packaged, Personalized, Project, " Audio-visual, Prescribed	"	"

NEBRASKA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Willis Gabbert	Mech.Drafting	Lab,Packaged,Personalized, Project,Audio-visual,Prescribed	Central Tech Comm Coll	Hastings, Nebr.
Latham Mortensen	Welding	Lab,Packaged, Personalized, " Project,Audio-visual,Prescribed	"	" "
Ronald Zlamka	Machine Tech	Lab,Packaged,Personalized, Project,Audio-visual,Prescribed	"	" "
Ewart Barton	Machinist	Lab,Packaged,Personalized, Project,Audio-visual,Prescribed	"	" "
Dale Petersen	Carpentry	Lab,Packaged,Personalized, Project,Audio-visual,Prescribed	"	" "
Eugene Cookus	Construction	Lab,Packaged,Personalized,Project, Audio-visual,Prescribed	"	" "
Ray F. Johnston	Construction	Lab,Packaged,Personalized,Project, Audio-visual,Prescribed	"	" "
Marylin Gerritsen	Nursing	Lab,Packaged,Personalized,Project, Audio-visual,Video,Prescribed	"	" "
Karen Baird	Human Services	Laboratory,Packaged,Personalized, Project,Audio-visual,Video,Prescribed	"	" "
Joan Wieland	Human Services	Laboratory,Packaged,Personalized, Project,Audio-visual,Video,Prescribed	"	" "
Dwane Biede	Social Science	Laboratory,Packaged,Personalized, Project,Audio-visual,Prescribed	"	" "

NEBRASKA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Jana Caurin	Social Studies	Laboratory, Packaged, Personalized, Project, Audio-visual, Prescribed	Central Tech Comm Coll	Hastings, Nebr.
J. Cross	Social Studies	Laboratory, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
John Dabroniery	Oral Communication	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Carl Kinneman	Math	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Ron Medley	Art	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Julie Persinger	English	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
ROD ROBINSON	Sociology	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Judith Ross	English	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Karen Tuinstra	Reading	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Mary Wiengra	Business Law	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Carola Braumbaugh	Secretarial	Lab, Packaged, Personalized, Project, Audio-visual, Video, Prescribed	"	"

NEBRASKA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Josephine Hill	Secretarial	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	Central Tech Comm Coll	Hastings, Nebr.
Marion Bender	Secretarial	" Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Betty Jackson	Personal Dev./Girls	Lab, Packaged, Personalized, Project, Audio-visual, Video, Prescribed	"	"
daskell Kirkland	Hotel/Motel/Rest/Mgmt	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Joseph Kranz	Marketing/Mgmt	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Mrs. George McArthur	Secretarial	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Richard Worse	Data Processing	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Edward Ziembra	Data Processing	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
James Pronge	Marketing	Lab, Personalized, Project, Audio-visual, Prescribed	"	"
Virginia Stocton	Bookkeeping	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"
Bruce Eunier	Broadcasting	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	"	"

NEBRASKA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Lee Preston	Accounting	Lab, Packaged, Personalized, Project, Audio-visual, Prescribed	Central Tech Comm Coll	Hastings, Nebr.
"	Math	Programmed	Nebraska Western Coll	Scottsbluff, Nebr.
"	English	Audio-tutorial, Programmed, Personalized, Audio-visual	"	"
Arthur Russell	Biology/Zoology	Audio-tutorial, Programmed, Lab, Audio-visual	"	"
John L. Koch	Biology	Audio-tutorial, Lab, Personalized, Audio-visual	"	"
M. Jane Hunter	Reading	Contract, Prescribed	"	"
J.D. Hunter	Curriculum/Inst./Comm.	Contract, Personalized, Project, Audio-visual, Video	"	"
Jean Ahrens	Reading	Contract, Personalized, Project, Audio-visual, Prescribed	"	"

NEW MEXICO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
J.J.Jenkins	Chemistry	Audio-tutorial, Audio-visual, Video	New Mexico Military	Roswell, N.M.
Geraldine Hall	Reading	Programmed, Personalized, Audio-visual, Library, Lab	N.M.State Univ.	San Fidel, N.M.

NORTH DAKOTA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Leonard Ruzickou	Freehand Drawing/Tech Ltr	Auto-tutorial, Contract,Packaged	North Dakota State School of Science	Wahpeton, N.D.
Don Rosley	Electronic Tech	Programmed, Audio- visual	" " " "	" "
James G. Aldrich	University Studies	Programmed,Lab,Packaged," Personalized,Audio-visual, Video,Lecture	" " "	" "
Erna Lam	Occupational Therapy	Individual/Independent Study	" " " "	" "
John Anthony	Psychology	Programmed,Contract,Personalized	" " "	" "
J. J. Brandt, Ph.D.	History	Personalized,Library	" " "	" "
Voc Ed/Bus Ed		Programmed,Contract,Packaged, Personalized,Audio-visual,Prescribed	" " "	" "

OHIO

Name	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Joseph Clovesko	Intro Biology	Audio-tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Library, General Lecture	Cuyahoga Comm Coll	Cleveland, Ohio
William F. Lucas	Accounting	Auto-tutorial, Audio-visual	" " "	" "
David E. Wileman	Drafting & Design	Personalized	" " "	" "
Gaston Ndayajunwoha	Math/Statistics	Keller, Modified	" " "	" "
Mrs. Anna L. Shrider	Physics/Math	Own system	" " "	" "
Linda Taylor	Communications	Audio-tutorial, Programmed, Lab, Packaged, Personalized, Project, Audio-visual, Video	Muskingum Area Tech Coll	Janesville, Ohio
Bruce Doggett	Math	Audio-tutorial, Lab, Packaged, Personalized, Audio-visual, student tutors	" " "	" "
Thomas J. Stark	Engineering Math	Auto-tutorial, Auto-tutorial, Lab, Packaged, Laboratory, Personalized, Audio-visual, Library, Prescribed	Cincinnati Technical Coll	Cincinnati, Ohio
Karly Reink	Educ/Admin	Auto-tutorial, Programmed, Lab, Personalized, Audio-visual, Video, Library	" " "	" "
Emily H. Carr	Dental Hygiene	Lab, Programmed, Audio-visual	Raymond Walters Coll	Cincinnati, Ohio
Anthony P. Malone	Math	Programmed, Contract, Packaged, Personalized, Modular	" " "	" "

OHIO

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Judith M. Schultz	Biology	Keller	Raymond Walters Coll	Cincinnati, Ohio
Judith A. Baughn	French	Programmed, Lab, Packaged, Personalized, Audio-visual	" " "	"
Carol Laque	English	Personalized, Library, Prescribed	" " "	"
Carol Robinson	English	Programmed, Lab, Audio- visual, Computer, Prescribed	" " "	"
--	English	Lab, Personalized, Prescribed	" " "	"
Roger Allen	Communication	Audio-tutorial, Programmed, Contract, Lab, Packaged, Project, Audio- visual, Library, Prescribed	Washington Tech Coll	Marietta, Ohio
William R. Sheets	Accounting	Contract, Personalized, Lab, Prescribed, Audio-visual	" " "	"
Gloria Vance	English/Math/Reading	Audio-tutorial, Auto-tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Library, Prescribed	" " "	"
Edward Turner	Math	Auto-tutorial, Programmed, Lab, Personalized	Ohio Coll Appl Sci	Cincinnati, Ohio
Eleanor M. Carlson Mary Jane Frame	Curriculum Nrsng	Audio-tutorial, Auto-tutorial, Sinclair Community Coll Programmed, Lab, Packaged, Dayton, Ohio Personalized, Audio-visual, Video, Prescribed		

OHIO

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
John Elder	English	Programmed, Lab, Personalized, Prescribed	Sinclair Community College	Dayton, Ohio
B. Albert Friedman	Data Processing	Computer	"	"
Louise B. Katz	Allied Medicine	Lab only	"	"
Louise S. McCants	Mathematics	Lab, Personalized, Project, Computer, Library, Small groups	"	"
--	Dev. Ed.	Audio-tutorial, Lab, Packaged, Personalized	Central Ohio Tech	Newark, Ohio
--	Business (Computer Prog)	Project, Computer	"	"
--	Business	Lab	"	"
--	Health	Tutorial	"	"
--	Health	Personalized	"	"
Johnetta Bonner Mixon	Nursing-Ed-Counseling	Lab, Packaged, Library, Cuyahoga Community Coll. Personalized, Audio-visual		Cleveland, Ohio
Stanley J. Kloser	Reading/Writing	Programmed, Lab, Packaged, Personalized, Audio-visual, Video, Computer, Library, Prescribed	"	"
Frances A. Franklin	Composition	Packaged	"	"
Mrs. Mary Lou Conlin	Composition	Lab, Personalized, Prescribed	"	"

OHIO

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
--	<i>Mathematics</i>	<i>Audio-tutorial, Programmed, Personalized, Audio-visual</i>	<i>Cuyahoga Community Coll.</i>	<i>Cleveland, Ohio</i>
<i>Mrs. Kathleen S. Miles</i>	<i>English Comp</i>	<i>Audio-tutorial, Contract, Packaged, Personalized, Audio-visual, Group work</i>	"	"
<i>Pamela Phillips</i>	<i>Lit/Theatre</i>	<i>Personalized, Library, Independent Study</i>	"	"
<i>Marilyn Paul</i>	<i>Educ/Hist/Art</i>	<i>Audio-tutorial, Programmed, Contract, Lab, Packaged, Personalized</i>	"	"
<i>Prof. Margaret R. Taber</i>	<i>Elect/Electronic Engr.</i>	<i>Audio-tutorial, Keller, Lab, Packaged, Personalized, Audio- visual, Modified Keller</i>	"	"

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OKLAHOMA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
R. D. Reynolds	Math	Audio-tutorial, Auto-tutorial, Programmed, Contract, Keller, Lab, Personalized, Project, Audio-visual, Prescribed	Claremore Junior College	Claremore, Okla.
Michael L. Schooling	Natural Science	Audio-tutorial, Auto-tutorial, Personalized, Audio-visual	"	"
--	Bus.Ed./Higher Ed	Project	"	"
Ivan Lurz	Biology/Botany	Auto-tutorial, Personalized, Audio-visual, Prescribed, Individualized Lab Instr.	"	"
Robert Curry	Physics/Math	Contract, Project	"	"
Jerry O. Smith	Math	Audio-tutorial, Programmed, Contract, Lab, Personalized, Audio-visual	"	"
Elwyn Isaacs	Sociology/Okla Hist	Programmed, Contract, Packaged, Personalized, Prescribed	"	"
Floretta Haggard	Microbiology/Chem	Audio-tutorial, Lab, Personalized, Library, Prescribed	"	"
Leon P. Semkoff	Math	Audio-tutorial, Programmed, Contract, Laboratory, Personalized, Prescribed	"	"

OKLAHOMA

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Larry D. Vickers	Math	Audio-tutorial, Programmed, Contract, Lab, Personalized, Audio-visual, Prescribed	Claremore Jr. Coll.	Claremore, Okla.
Eddie J. Ary	Economics/Accounting	Contract, Packaged, Project, Audio-visual	" " "	"

SOUTH DAKOTA

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Sr. Veronica Oden BS MT ASCP	Physical Science	Audio-tutorial,Lab, Personalized,Audio-visual, Combination structured Lect.	Presentation Coll.	Aberdeen S. Dakota
Sr. M. Bonaventiere R.N.M.Ed.	Education	Audio-tutorial,Auto- tutorial,Lab,Packaged, Personalized,Project, Audio-visual,Video, Library,Prescribed	" " "	" " "
Sr. Claudia McNamara	Anat/Physiology	Audio-tutorial,Auto- tutorial,Packaged,Audio-visual, Library,Prescribed, A & P Resources	" " "	" " "
Sr. Jane Frances Lamm	Biology/Nutrition	Programmed,Lab, Personalized,Project, Library,Prescribed	" " "	" " "

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Ms. Leslie Klemens	Gen Sci/Dent Hyg	Auto-tutorial,Programmed, Lab,Packaged	Gateway Tech Institute	Renssha, Wis.
Nellie Frazee	Nursing	Auto-tutorial,Programmed, Laboratory	" " "	" "
Hugh E. Wheeler	Mech Drafting	Audio-tutorial,Lab,Package, Personalized,Audio-visual, Video,Prescribed	" " "	" "
--	Mech Drafting	Lab,Personalized,Project, Audio-visual	" " "	" "
Dorothy Goodman	Business Educ.	Lab,Packaged,Project, Prescribed	" " "	" "
Dave Dosemagen	Vocational Ed.	Programmed	" " "	" "
Nancy Kaprelian	Nursing	Audio-tutorial,Auto- tutorial,Programmed, Laboratory,Packaged, Personalized,Audio-visual, Video, Library,Prescribed Simulations/Practicum, Discussion/Lecture	" " "	" "
Ned Perri	Business/Accounting	Personalized,Audio-visual	" " "	" "
Mrs. Mary Poage	Economics/English	Auto-tutorial,Programmed, Audio-visual	" " "	" "

WISCONSIN

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Leroy J. Nyquist	Bus Ed	Audio-tutorial	Blackhawk Tech Institute	Beloit, Wisc
Rieta Grant	Keypunch	Audio-visual-tutorial	"	"
--	Office Occupations	Lab, Personalized, Prescribed, Audio-visual- tutorial	"	"
Diane C. Whiteford	Marketing/Retailing	Programmed, Lab, Packaged, Personalized, Project, Audio-visual, Library, Prescribed, Lecture- teacher/transparencies	Western Wisc.Tech.Inst.	LaCrosse, Wisc.
Mrs. Marion T. Anderson	Secretarial Science	Audio-tutorial, Lab, Audio-visual, Prescribed	"	"
Allan Rusch	Mech Design/Tech Draw	Packaged, Audio-visual, Lecture/Lab	"	"
Carl H. Mueller	Soils/Agronomy	Lab, Packaged, Personalized, Audio-visual	"	"
Keith R. Valiquette	Social Sci/Biol Sci	Packaged, Personalized, Audio-visual, Prescribed	"	"
Lois Durall	Reading	Audio-tutorial, Auto- tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Prescribed, Learning Lab	"	"
James M. Lloyd	Soc/Psych	Contract, Packaged, Project, Audio-visual, Prescribed	"	"

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Joyce Rosso	Economics	Audio-tutorial,Programmed, Personalized,Project, Audio-visual,Library,	Western Wisc.Tech.Inst.	LaCrosse,Wisc.
Donald R. Nantelle	English	Auto-tutorial,Packaged, Personalized,Library	"	"
David Nelson	Math/Physics	Audio-tutorial,Programmed, Packaged,Audio-visual,Video	"	"
Charles R. Cooley	Physics/Math	Audio-tutorial,Lab,Packaged, Video	District One Tech Inst.	Eau Claire,Wisc.
Mrs. M. Helene Carroll	Typing	Audio-tutorial,Audio-visual,	"	"
Lewis P. Mallow,Jr.	Drafting Mech Des.	Lab,Project,Audio-visual	"	"
Mrs. Sandy Granunder	Sec Sci	Contract,Personalized	"	"
Ann Hanson	Business Educ	Audio-tutorial,Lab, Personalized,Audio-visual	"	"
--	Math	Programmed,Packaged, Prescribed	Waukesha County Tech Inst.	Waukesha, Wisc.
Robert Tennessee	Electronics	Lab,Packaged,Personalized, Project,Audio-visual,Library	"	"
Barbara Ollhoff	Non-textiles/Retail Fash.	Contract,Lab,Packaged, Personalized,Project,Audio- visual,Video,small group sessions	"	"
Mary Sue Koeppl	Communication/Writing Lab	Programmed,Lab,Packaged, Contract,Audio-visual	"	"

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Helen Jankowski	Human Anatomy	Packaged, Audio-visual	Waukesha County Tech Inst	Waukesha, Wisc.
Dr. Jan Wurst Phelps	Botany/Zoology	Audio-tutorial, Auto-tutorial, Laboratory, Personalized, Project; Audio-visual, Library	U.of Wisc. Ctr.	Baraboo, Wisc.
James A. Schauwach	Art	Audio-visual	" " "	" "
Linda A. Smith	Reading/Study Skills	Auto-tutorial, Programmed, Packaged, Personalized, Audio-visual, Library, Prescribed	" "	" "
R. B. Oestling	Biochem/Math	Personalized, Project, Audio-visual, Computer, Library, Prescribed	" "	" "
--	Math	Audio-tutorial, Programmed, Lab, Packaged	" "	" "
Wendell D. Bell	Biomedical Sci.	Audio-tutorial, Lab, Video, lecture	" "	" "
Bettiee Roberts	Nursing Educ.	Auto-tutorial	" "	" "
Marian Brunscheen	Business Ed.	Audio-tutorial, Auto-tutorial, Lab, Packaged, Audio-visual	" "	" "
Gary Koldenhauer	VOC Ed/Welding	Audio-tutorial, Programmed, Laboratory, Packaged, Audio-visual, Library	" "	" "

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
--	Comm Art	Contract,Lab,Packaged, Personalized,Audio-visual	Western Misc. Tech.Inst.	LaCrosse,Wisc.
Jane A. Travis	Nursing	Auto-tutorial,Programmed, Lab,Packaged,Personalized, Audio-visual,Video,Library	" " " "	" "
Mrs. Kay Sammartron	Ward Clerk Program	Auto-tutorial,Programmed, Laboratory,Packaged,Personalized, Audio-visual,Computer,Library, Prescribed	" " " "	" "
Pearl Ball-Vought	Nursing	Auto-tutorial,Programmed, Packaged,Personalized, Audio-visual,Video, Library	" " " "	" "
Monna Thompson	Nursing	Auto-tutorial,Programmed, Lab,Packaged,Personalized,Audio-visual,Video,Library, Conference Individual student/instructor	" " " "	" "
Ruth Anderson	Nursing	Auto-tutorial,Auto-tutorial," Lab,Programmed,Packaged, Video, Personalized,Audio-visual,Prescribed	" " " "	" "
Guineth Sweeney	Secretarial	Auto-tutorial,Programmed, Lab,Packaged,Personalized, Project	Lakeshore Tech Institute	Cleveland,Wisc.
Nancy Skeiba	Keypunch	Auto-tutorial,Packaged, Audio-visual	" " " "	" "

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
J. Curt Sharp	Secretarial Science	Lab,Packaged, Audio-visual	Lakeshore Tech Inst	Cleveland, Wisc.
David Hickman	Psych/Soc	Packaged,Personalized, Project,Audio-visual	" " "	" "
Virginia W. McIntyre	Human Relations	Programmed,Contract, Packaged	" " "	" "
Mel DeSwarte	Voc Ed	Audio-tutorial,Programmed, Lab,Packaged,Audio-visual, Video,Library	" " "	" "
Paul Dietzman -- --	Math Business Ed. Business Ed.	Programmed,Prescribed Audio-tutorial,Programmed, Lab,Packaged	" " "	" "
Royal W. Natzke	Lay Ministry	Contract/Project	Concordia College	Milwaukee, Wisc.
Dr. Martin A. Haendschke	Paraprofessional Projects	Project,Prescribed	Milwaukee Area Tech Coll	" "
Mrs. Katherine A. Gansheroff	English	Audio-tutorial, Auto- tutorial,Lab,Packaged, Personalized,Project, Audio-visual,Video,Prescribed	" " "	" "
Edward S. Frankiewicz	Speech	Audio-tutorial,Personalized, Prescribed,lecture,discussion, student perf.	" " "	" "
Donald L. Marlow	Tech Engng.	Packaged,Video,Project	" " "	" "
William E. Slezewski	Mech. Tech.	Packaged,Video	" " "	" "

WISCONSIN

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Carol Miller	Educ.	Audio-tutorial, Auto-tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Video, Peer-mediated Instruction	Milwaukee Area Tech Coll	Milwaukee, Wisc.
Mildred K. Polisky	Business Educ.	Audio-tutorial, Audio-visual, Personalized	"	"
Robert D. Reich	Botany, Ecology	Audio-tutorial, Contract, Laboratory, Packaged, Personalized, Project, Prescribed	"	"
Paul T. Witzke	Math	Programmed, Personalized	"	"
Gerald Maglab	Math	Audio-tutorial, Programmed, Personalized	"	"
Donald Weidensee	Biology/Counseling	Auto-tutorial, Programmed, Laboratory, Audio-visual, Video, Library	"	"
Mrs. Leah Temkin	Reading	Audio-tutorial, Auto-tutorial, "	"	"
Earl C. Rustad	Business Ed.	Programmed, Laboratory, Packaged, Personalized, Audio-visual, Video, Prescribed, Kinesthetic techniques	"	"
Altha Robison	Independent Learning Ctr.	Audio-tutorial, Personalized, Audio-visual	"	"
		Audio-tutorial, Programmed, Lab, Packaged, Personalized, Library	"	"

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Eileen E. Iberg	English/Reading	Audio-tutorial,Programmed, Laboratory,Contract,Packaged, Personalized,Audio-visual, Library,Prescribed	"	"
Robert Sargent	M.S.S.W.	Programmed,Packaged, Personalized,Prescribed	"	"
Marion F. Enli	English/History	Programmed,Personalized, Audio-visual,Library	"	"
Patrick Folger	English	Audio-tutorial,Programmed, Contract,Packaged, Personalized,Audio-visual, Library	"	"
Jack Feiereisen	Philosophy	Personalized,Project,Library	"	"
Lois Fryatt	Creative Writing	Audio-tutorial,Personalized, Library,Tape, Self-examination, Workbook,Course Examinations, Individualized Conferences	"	"
Gerrri Riopel	French/Spanish	varies w/students' needs and objectives	"	"
	Botanical Ecology	Personalized	"	"
		Tape/text	"	"

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Jim Oravec	Automotive Mechanics	Personalized, Packaged, Audio-visual	Nicolet Coll/Tech Inst	Phinelander,Wisc.
Robert Germer	Business	Programmed, Lab, Packaged, Personalized, Project	" " "	" "
Roger A. Sabota	Math	Personalized	" " "	" "
Arthur Koskela	Math/Chemistry	Auto-tutorial	Mid-State Technical Inst.	Wisconsin Rapids,Wisc.
Ross Hemmingson	Dist.Educ./Real Est.	Programmed	" " "	" "
Irvine Acott	Business Educ.	Packaged	" " "	" "
Joy M. Hess	Upper Elem Educ	Audio-tutorial, Programmed, Personalized, Prescribed	" " "	" "
John Foss	Math	Programmed	" " "	" "
Rita K. Schneider	Accounting	Lab	" " "	" "
Fern Casper	Social Studies	Audio-tutorial, Programmed, Personalized, Prescribed	" " "	" "
A.D. Halverson T.P. Harvieux	Math/Reading	Audio-tutorial, Auto-tutorial, Wisc.Indianhead Tech Inst. New Richmond,Wisc Programmed, Contract, Lab, Packaged, Personalized, Project, Audio-visual, Video, Computer, Library, Prescribed		

WISCONSIN

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Jack O'Connell	Adult Basic Ed.	Audio-tutorial, Autotutorial, Programmed, Contract, Lab, Packaged, Personalized, Audio-visual, Library, Prescribed	Wisc. Indianhead Tech Inst	New Richmond, Wisc.
Michael J. Gagner	Dist Education	Programmed, Contract, Personalized, Library	" " "	Superior, Wisc.
Marilyn Santori	Bus Education	Audio-tutorial, Programmed, Packaged	" " "	" "
Lorraine K. Matushak	Bus Education	Audio-tutorial, Programmed, Packaged	" " "	" "
Roberta J. Lindemann	Bus Education	Audio-tutorial, Programmed, Packaged	" " "	" "
Diane M. Peterson	--	Audio-tutorial, Programmed, Contract, Lab, Personalized, Project	" " "	Rice Lake, Wisc.
Leila K. Haight	Communications	Audio-tutorial, Programmed, Packaged, Personalized, Audio-visual, Prescribed	" " "	" "
Mary Ellen Filkins	Business/Clerical Math	Contract, Lab, Personalized, Prescribed	" " "	" "
Mrs. Vivian Quinn	Business Educ.	Audio-tutorial, Lab	" " "	" "
Gene Lorenz	Math	Packaged	" " "	" "
Robert Thompson	Business Educ.	Audio-tutorial, Package, Audio-visual, Prescribed	" " "	" "

WISCONSIN

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
Arthur J. Sullivan	Communications/Soc Sci	Packaged	Misc. Indianhead Tec. Inst	Rice Lake, Wisc.
Kary Bojd	Ele. Education	Packaged, Cassette Learning Packages	" " "	Ashland, Wisc.

WYOMING

NAME	SUBJECT AREA	FORMAT	INSTITUTION	LOCATION
Alfred Koenke	Business	Audio-tutorial, Programmed	Central Wyoming Coll.	Riverton, Wyoming
Mel McFetridge	Accounting	Lab, Personalized, Project	" " "	" "
Paylis Lassiter	Business	Audio-visual-tutorial	" " "	" "
Stanley O. Hjerleid	Electronics	Programmed, Lab, Packaged, Audio-visual, Library	" " "	" "
Ralph G. Schaefer	Elect. Engineering	Lab, Packaged	" " "	" "
--	Business Educ.	Audio-visual Tutorial	Western Wyoming College	Rock Springs, Wyoming
Linda Webster	Reading/Math	Audio-tutorial, Programmed, Lab, Packaged, Audio-visual, Prescribed	" " "	" "
Karen Love	Math/Reading	Audio-tutorial, Programmed, Sheridan College Lab, Packaged, Audio-visual, Prescribed	Sheridan, Wyoming	
Osea C. Nelson	English	Audio-tutorial, Auto-tutorial, Programmed, Lab, Packaged, Personalized, Audio-visual, Video, Library, Prescribed	" "	" "
Aro, John H.	English/Humanities	Programmed, Audio-tutorial, Laboratory, Packaged	" "	" "
--	Psych/Music/Meteorology	Audio-tutorial, Auto-tutorial, Programmed, Laboratory, Packaged, Personalized, Library	" "	" "

WYOMING

<u>NAME</u>	<u>SUBJECT AREA</u>	<u>FORMAT</u>	<u>INSTITUTION</u>	<u>LOCATION</u>
--	<i>Developmental Areas</i>	<i>Audio-tutorial,Contract, Lab, Personalized,Project, Audio-visual, Library, Prescribed,Semi-structured classroom instruction</i>	<i>Laramie County Comm Coll</i>	<i>Cheyenne, Wyoming</i>
Nancy M. Lutze	<i>Office Occupations</i>	<i>Programmed,Contract, Lab,Personalized, Project,Audio-visual, Video,Library,Prescribed</i>	"	"
Richard G. Jones	<i>Voc Tech</i>	<i>Lab,Personalized,Project, Audio-visual,Flip Charts</i>	"	"
Lawrence H. Chitty	<i>Industrial Arts</i>	<i>Lab,Personalized, Project,Audio-visual Library</i>	"	"

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